



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

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ವಿದ್ಯುತ್ ಶಕ್ತಿ ನಿಯಂತ್ರಣ ಆಯುಕ್ತರು  
ಕರ್ನಾಟಕ ವಿದ್ಯುತ್ ಶಕ್ತಿ ನಿಯಂತ್ರಣ ಆಯುಕ್ತರು

**KARNATAKA ELECTRICITY REGULATORY COMMISSION**  
No. 16 C-1, Miller Tank Bed Area, Vasanth Nagar, Bengaluru- 560 052

## NOTIFICATION

No: KERC/S/F-34/Vol-12(a)/509

Dated: 29.07.2021

Before the Karnataka Electricity Regulatory Commission, Bengaluru

Dated 29.07.2021

Present:

Shri Shambhu Dayal Meena .. Chairman  
Shri H.M. Manjunatha .. Member  
Shri. M.D. Ravi .. Member

In the matter of Karnataka Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulations, 2019.

1.0 Preamble:

1.1 Under Section 61 of the Electricity Act, 2003 (herein after referred as the 'Act'), the Karnataka Electricity Regulatory Commission (KERC) is mandated to specify the terms and conditions for the determination of Generation tariff within the State, based on the principles and

methodologies specified by the Central Commission for determination of the tariff applicable to generating companies and transmission licensees.

1.2 While specifying the terms and Conditions for determination of tariff, following guidelines shall also be considered as per section 61 of the Act:

- (a) the generation, transmission, distribution and supply of electricity are conducted on commercial principles;
- (b) the factors which would encourage competition, efficiency, economical use of the resources, good performance and optimum investments;
- (c) safeguarding of consumers' interest and at the same time, recovery of the cost of electricity in a reasonable manner;
- (d) the principles rewarding efficiency in performance;
- (e) multiyear tariff principles;
- (f) that the tariff progressively, reflects the cost of supply of electricity and also, reduces cross-subsidies in the manner specified by the Appropriate Commission;
- (g) the promotion of co-generation and generation of electricity from renewable sources of energy;
- (h) the National Electricity Policy and tariff policy.

1.3 Section 181(2) (zd) of the Act, empowers the Commission to make regulations on the terms and conditions for the determination of tariff under section 61 of the Act.

1.4 After the enactment of the Electricity Act 2003, the KERC has framed regulations, in exercise of the powers under Section 181 of the Act, on the terms and conditions for the determination of generation tariff. The Commission issued draft Regulations for the control period 2019-24 vide KERC notification No. KERC/F-34/Vol-12(a)/544 dated:25.09.2020.

1.5 In view of the above, the Commission has been determining the tariff of the generating stations falling within its jurisdiction through transparent and participative process. The Commission, while determining the tariff, takes into account, the objectives of safeguarding consumer interest as well as ensuring recovery of cost of electricity in a reasonable manner based on the principles set out by the Central Electricity Regulatory Commission (CERC) which are the guiding principles and methodology for determination of the tariff.

To achieve these objectives, the Commission undertakes various regulatory measures which are consistent with the principles set out by the Central Commission under Section 61 of Electricity Act, 2003 and Tariff Policy, 2006 issued by the Central Government.

- 1.6 The control period 2014-19 has ended on 31st March, 2019 and the Commission is required to specify the terms and conditions of Generation tariff for the next control period i.e. for period from 2019 to 2024. The Commission has taken note of the tariff norms fixed by CERC for the control period 20019-24 and the same have been kept in view, while framing these Regulations.
- 1.7 Based on the principles and the methodology specified by CERC, this Commission had initiated the process of framing the generation tariff regulations for the next control period i.e. for 2019-24 on 02.09.2020, by calling for details from the Karnataka Power Corporation Ltd. and BESCOM and issued the draft Karnataka Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulations, 2019 on 25.09.2020.
- 1.8 The Commission invited comments/suggestions and views, from the interested persons and stakeholders, on the norms and CERC norms to be considered while framing the regulations governing the terms and conditions of the generation tariff. The Commission has also conducted a Public Hearing on 07<sup>th</sup> December, 2020, to elicit the views of the public and stakeholders on the draft Karnataka Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulations, 2019, issued by the Commission. The Commission received comments/suggestions from the stakeholders including KPCL, KPTCL, BESCOM, HESCOM, MESCOM, CESC, GESCOM and PCKL. The comments/suggestions received from the stakeholders on the issues raised are annexed at Appendix.
- 1.9 There has been a delay of about 6 months in finalising the Regulations due to Administrative hindrance and closure of office due to Covid-19 Pandemic.

#### ORDER

Keeping in view the principles and methodology specified in the CERC (Terms and Condition of Tariff) Regulations, 2019 pertaining to Generation of electricity from conventional generating stations and after considering the views/ objections/comments/ suggestions of the stakeholders on the draft regulations, the Commission hereby approves the KERC (Terms and Conditions for Determination of Generation Tariff) Regulations, 2019, applicable for the control period 2019-24 as annexed in **Appendix-1**.

All the other issues not covered under these Regulations, shall be governed by the CERC (Terms and Condition of Tariff) Regulations, 2019 and amendments thereon, issued from time to time.

((SHAMBHU DAYAL MEENA)  
CHAIRMAN

(H.M.MANJUNATHA)  
MEMBER

(M.D.RAVI)  
MEMBER

## Appendix - I

KARNATAKA ELECTRICITY REGULATORY COMMISSION  
No. 16 C-1, Miller Tank Bed Area, Vasanth Nagar, Bengaluru- 560 052

No: KERC/S/F-34/Vol-12(a)/508

Dated:29.07.2021

### Notification

In exercise of powers conferred under section 181 - 2 (zd) of the Electricity Act, 2003 (36 of 2003) (herein after referred to as the Act) read with section 61 thereof and all other powers enabling it in this behalf, and after previous publication, the Karnataka Electricity Regulatory Commission hereby makes the following regulations, namely:

## CHAPTER-1

### PRELIMINARY

#### 1. Short title and commencement

- (1) These Regulations may be called Karnataka Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulations, 2019.
- (2) These Regulations shall extend to the whole of the State of Karnataka.
- (3) These Regulations shall come into force from 1st April, 2019 and unless reviewed earlier or extended by the Commission, shall remain in force up to 31st March, 2024.

#### 2. Scope and extent of application:

- (1) These regulations shall apply in all cases where tariff for a generating station or a unit thereof achieving commercial operation during the period from 1st April, 2019 up to 31st March, 2024, is required to be determined by the Commission under section 62 of the Act read with section 86 thereof.

Provided that where a project or a part thereof, has been declared to be under commercial operation before the date of commencement of these Regulations and whose Tariff has not been finally determined by the Karnataka Electricity Regulatory Commission till that date, tariff in respect of such generating station or unit thereof:

- a) For the period ending 31.03.2014 shall be determined in accordance with the with the Karnataka Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulations, 2009.
  - b) For the period ending 31.03.2019 shall be determined in accordance with the Karnataka Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulations 2014.
- (2) These regulations shall not be applicable to;
- (a) Generating stations based on renewable sources of energy whose tariff is determined in accordance with the Karnataka Electricity Regulatory Commission (Power Procurement from Renewable Sources by Distribution Licensee) Regulations 2004 as amended from time to time
  - (b) Generating stations whose tariff has been discovered through tariff based competitive bidding in accordance with the guidelines issued by the Central Government and adopted by the Commission under section 63 of the Act.

### 3. Definitions

- (1) **'Act'** means the Electricity Act, 2003 (36 of 2003);
- (2) **'Additional Capital expenditure'** means the capital expenditure incurred, or projected to be incurred after the date of commercial operation of the project by the generating company, in accordance with the provisions of these regulations;
- (3) **'Additional Capitalisation'** means the additional capital expenditure admitted by the Commission after prudence check, in accordance with these regulations;
- (4) **'Admitted capital cost'** means the capital cost which has been allowed by the Commission for servicing through tariff after due prudence check in accordance with the relevant tariff regulations;
- (5) **'Auxiliary Energy Consumption'** or 'AUX' in relation to a period in case of a generating station means the quantum of energy consumed by auxiliary equipment of the generating station, such as the equipment being used for the purpose of operating plant and machinery including switchyard of the generating station and the transformer losses within the generating station, expressed as a percentage of the sum of gross energy generated at the generator terminals of all the units of the generating station;

Provided that auxiliary energy consumption shall not include energy consumed for supply of power to housing colony and other facilities at the generating station and the power consumed for construction works at the generating station and integrated coal mine;

Provided further that auxiliary energy consumption for compliance of revised emission standards, sewage treatment plant and external coal handling plant (jetty and associated infrastructure) shall be considered separately.

- (6) **'Auditor'** means an auditor appointed by a generating company, in accordance with the provisions of sections 224, 233B and 619 of the Companies Act, 1956 (1 of 1956), as amended from time to time or Chapter X of the Companies Act, 2013 (18 of 2013) or any other law for the time being in force;
- (7) **'Bank Rate'** means the one-year marginal cost of lending rate (MCLR) as declared by the State Bank of India from time to time plus 200 basis points.
- (8) **'Beneficiary'** in relation to a generating station means a distribution licensee who is purchasing electricity generated at such generating station through a Power Purchase Agreement either directly or through a trading licensee on payment of fixed charges and by scheduling in accordance with the Grid Code:

**Provided that:**

where the distribution licensee is procuring power through a trading licensee, the arrangement should be secured through back to back power purchase agreement and Power Sale Agreement.

- (9) **'Capital Cost'** means the capital cost as determined in accordance with Regulation 19 of these regulations;
- (10) **'Change in Law'** means occurrence of any of the following events:
- (a) enactment, bringing into effect or promulgation of any new Indian law; or
  - (b) adoption, amendment, modification, repeal or re-enactment of any existing Indian law; or
  - (c) change in interpretation or application of any Indian law by a competent court, Tribunal or Indian Governmental Instrumentality which is the final authority under law for such interpretation or application; or
  - (d) change by any competent statutory authority in any condition or covenant of any consent or clearances or approval or licence available or obtained for the project; or
- (11) **'Commission'** means the Karnataka Electricity Regulatory Commission.
- (12) **'Competitive Bidding'** means a transparent process for procurement of equipment, services and works in which bids are invited by the project developer by open advertisement covering the scope and specifications of the equipment, services and works required for the project, and the terms and conditions of the proposed contract as well as the criteria by which bids shall be evaluated, and shall include domestic competitive bidding and international competitive bidding;
- (13) **'Cut-off Date'** means the last day of the calendar month after thirty-six months from the date of commercial operation of the project.
- (14) **'Date of Commercial Operation'** or **'COD'**

(a) in case of a generating unit or block of the thermal generating station, means the date declared by the generating company after demonstrating the maximum continuous rating (MCR) or the installed capacity (IC) through a successful trial run after notice to the beneficiaries, if any, and in case of the generating station as a whole, the date of commercial operation of the last generating unit or block of the generating station:

**Explanation:**

- (i) Where the beneficiaries have been tied up for purchasing power from the generating station, the trial run shall commence after seven days' notice by the generating company to the beneficiaries and scheduling shall commence from 0000 hr after completion of the trial run;
- (ii) The generating company shall certify to the effect that the generating station meets the key provisions of the technical standards of the Central Electricity Authority (Technical Standards for Construction of Electrical plants and electric lines) Regulations, 2010 and the Grid Code; and
- (iii) The certificate shall be signed by CMD/CEO/MD of the company subsequent to its approval by the Board of Directors in the format enclosed at Appendix IV and a copy of the certificate shall be submitted to the Member Secretary of the concerned Regional Power Committee, SRLDC and SLDC before declaration of COD:

(b) in relation to a generating unit of hydro generating station including pumped storage hydro generating station, means the date declared by the generating company from 0000 hour after the scheduling process in accordance with the Grid Code is fully implemented, and in relation to the generating station as a whole, the date declared by the generating company after demonstrating peaking capability corresponding to the installed capacity of the generating station through a successful trial run: Explanation:

- i. Where the beneficiaries have been tied up for purchasing power from the generating station, scheduling process for a generating unit of the generating station or demonstration of peaking capability corresponding to the installed capacity of the generating station through a successful trial run shall commence after seven days' notice by the generating company to the beneficiaries and scheduling shall commence from 0000 hr after completion of trial run;
- ii. the generating company shall certify to the effect that its generating station meets key provisions of the technical standards of the Central Electricity

Authority (Technical Standards for Construction of Electrical plants and electric lines) Regulations, 2010 and the Grid code;

- iii. the certificate shall be signed by CMD/CEO/MD of the company subsequent to its approval by the Board of Directors in the format enclosed at Appendix IV and a copy of the certificate shall be forwarded to the Member Secretary of the concerned Regional Power Committee, SRLDC and SLDC before declaration of COD;
- iv. In case a hydro generating station with pondage or storage is not able to demonstrate peaking capability corresponding to the installed capacity for the reasons of insufficient reservoir or pond level, the date of commercial operation of the last unit of the generating station shall be considered as the date of commercial operation of the generating station as a whole, and it will be mandatory for such hydro generating station to demonstrate peaking capability equivalent to the installed capacity of the generating unit or the generating station as and when such reservoir/pond level is achieved; and
- v. if a run-of-river hydro generating station or a generating unit thereof is declared under commercial operation during lean inflows period when the water inflow is insufficient for such demonstration of peaking capability, it shall be mandatory for such hydro generating station or generating unit to demonstrate peaking capability equivalent to installed capacity as and when sufficient water inflow is available;

(c) The following procedure shall be included provided that generating company seeking the approval of the date of Commercial operation under this clause shall give prior notice at least one month to beneficiary regarding date of Commercial Operation.

Provided that the generating company seeking approval of date of Commercial operation under this clause shall be required to submit the following documents to beneficiary.

- i. Energisation Certificate issued by Chief Electrical Inspectorate for safety of generating station.
- ii. Trial Operation Certificate issued by SLDC for charging the generating station.
- iii. Implementation Agreement, if any, executed by the parties
- iv. Minutes of Coordination meetings or related correspondences regarding monitoring progress of generating station.
- v. Certificate of the CEO or MD of the company regarding completion of generating station along with evacuation system.

(15) 'Day' means a calendar day consisting of 24 hours' period starting at 00.00 hours;



- (16) **'Declared Capacity' or 'DC'** in relation to a generating station means, the capability to deliver ex-bus electricity in MW declared by such generating station in relation to any time-block of the day as defined in the Grid Code or whole of the day, duly taking into account the availability of fuel or water, and subject to further qualification in these regulations;
- (17) **'De-capitalisation'** for the purpose of the tariff under these regulations, means reduction in Gross Fixed Assets of the project as admitted by the Commission corresponding to inter-unit transfer of assets or the assets taken out from service;
- (18) **'De-commissioning'** means removal from service of a generating station or a unit thereof after it is certified by the Central Electricity Authority or any other authorized agency, either on its own or on an application made by the project developer or the beneficiaries or both, that the project cannot be operated due to non-performance of the assets on account of technological obsolescence or uneconomic operation or a combination of these factors;
- (19) **'Design Energy'** means the quantum of energy which can be generated in a 90% dependable year with 95% installed capacity of the hydro generating station;
- (20) **'Existing Project'** means a project which has been declared under commercial operation on a date prior to 1.4.2019;
- (21) **'Expansion project'** shall include any addition of new capacity to the existing generating station
- (22) **'Expenditure Incurred'** means the fund, whether the equity or debt or both, actually deployed and paid in cash or cash equivalent, for creation or acquisition of a useful asset and does not include commitments or liabilities for which no payment has been released;
- (23) **'Extended Life'** means the life of a generating station or unit thereof beyond the period of useful life, as may be determined by the Commission on case to case basis;
- (24) **'Force Majeure'** for the purpose of these regulations means the events or circumstances or combination of events or circumstances including those stated below which partly or fully prevents the generating company to complete the project within the time specified in the Investment Approval, and only if such events or circumstances are not within the control of the generating company and could not have been avoided, had the generating company taken reasonable care or complied with prudent utility practices:
- (a) Act of God including lightning, drought, fire and explosion, earthquake, volcanic eruption, landslide, flood, cyclone, typhoon, tornado, geological surprises, or exceptionally adverse weather conditions which are in excess of the statistical measures for the last hundred years; or

- (b) Any act of war, invasion, armed conflict or act of foreign enemy, blockade, embargo, revolution, riot, insurrection, terrorist or military action; or
- (c) Industry wide strikes and labour disturbances having a nationwide impact in India; or
- (d) Delay in obtaining statutory approval for the project except where the delay is attributable to project developer;
- (25) **'Fuel Supply Agreement'** means the agreement executed between the generating company and the fuel supplier for generation and supply of electricity to the beneficiaries;
- (26) **'Generating Station'** means any station for generating electricity, including any building and plant with step-up transformer, switch-gear, switch yard, cables or other appurtenant equipment, if any, used for that purpose and the site thereof; a site intended to be used for a generating station, and any building used for housing the operating staff of a generating station, and where electricity is generated by water-power, includes penstocks, head and tail works, main and regulating reservoirs, dams and hydraulic works, but does not include any sub-station;
- (27) **'Generating Unit' or 'Unit'** in relation to a thermal generating station (other than combined cycle thermal generating station) means steam generator, turbine-generator and auxiliaries, or in relation to a combined cycle thermal generating station, means turbine-generator and auxiliaries or combustion turbine-generator, associated waste heat recovery boiler, connected steam turbine-generator and auxiliaries, and in relation to a hydro generating station means turbine-generator and its auxiliaries;
- (28) **'Grid Code'** means the Karnataka Electricity Grid Code 2015, as amended from time to time or subsequent re-enactment thereof, and the Indian Electricity Grid Code, 2010, issued by the Central Electricity Regulatory Commission, as amended from time to time or subsequent re-enactment thereof;
- (29) **'Gross Calorific Value' or 'GCV'** in relation to a thermal generating station means the heat produced in kCal by complete combustion of one kilogram of solid fuel or one litre of liquid fuel or one standard cubic meter of gaseous fuel, as the case may be;
- (30) **'GCV as Received'** means the GCV of coal as measured at the unloading point of the thermal generating station through collection, preparation and testing of samples from the loaded wagons, trucks, ropeways, Merry-Go-Round (MGR), belt conveyors and ships in accordance with the IS 436 (Part-1/ Section 1)- 1964:

Provided that the measurement of coal shall be carried out through sampling by third party to be appointed by the generating companies in accordance with the guidelines, if any, issued by Central Government.

Provided further that samples of coal shall be collected either manually or through hydraulic augur or through any other method considered suitable keeping in view the safety of personnel and equipment.

Provided also that the generating companies may adopt any advance technology for collection, preparation and testing of samples for measurement of GCV in a fair and transparent manner;

- (31) **'Gross Station Heat Rate' or 'SHR'** means the heat energy input in kCal required to generate one kWh of electrical energy at generator terminals of a thermal generating station;
- (32) **'Implementation Agreement'** means any agreement or covenant entered into (i) between the transmission licensee and the generating company or (ii) between transmission licensee and developer of the interconnected transmission system for the execution of generation and transmission projects in a coordinated manner, laying down the project implementation schedule and mechanism for monitoring the progress of the projects
- (33) **'Indian Governmental Instrumentality'** means the Government of India, Governments of State (where the project is located) and any ministry or department or board or agency or other, where the project is located;
- (34) **'Infirm Power'** means electricity injected into the grid prior to the date of commercial operation of a unit of the generating station.
- (35) **'Input Price'** means the price of coal or lignite sourced from the integrated mines at which the coal or lignite is transferred to the generating station for the purpose of computing the energy charges for generation and supply of electricity to the beneficiaries and determined in accordance with Chapter 9 of these regulations; as amended from time to time.
- (36) **'Installed Capacity' or 'IC'** means the summation of the name plate capacities of all the units of the generating station or the capacity of the generating station reckoned at the generator terminals, as may be approved by the Commission from time to time;
- (37) **'Integrated Mine'** means the captive mine (allocated for use in one or more identified generating station) or basket mine (allocated to a generating company for use in any of its generating stations) or both being developed by the generating company for supply of coal or lignite to one or more specified end use generating stations for generation and sale of electricity to the beneficiaries;
- (38) **'Investment Approval'** means approval by the Board of the generating company or Cabinet Committee on Economic Affairs (CCEA) or any other competent authority conveying administrative sanction for the project including funding of the project and timeline for implementation of the project:

Provided that the date of Investment Approval shall reckon from the date of the resolution of the Board of the generating company or the transmission licensee where the Board is competent to accord such approval and from the date of sanction letter of competent authority in other cases.

**Explanation:** The date of Investment Approval shall reckon from the date of the resolution/minutes of the Board/approval by the competent authority;

- (39) '**kCal**' means a unit of heat energy contents in mineral, measured in one kilo calories or one thousand calories of heat produced at any instantaneous period;
- (40) '**Kilowatt-Hour**' or '**kWh**' means a unit of electrical energy, measured in one kilowatt or one thousand watts of power produced or consumed over a period of one hour;
- (41) '**Landed Fuel Cost**' means the total cost of coal (including biomass in case of co-firing), lignite or the gas delivered at the unloading point of the generating station and shall include the base price or input price, washery charges wherever applicable, transportation cost (overseas or inland or both) and handling cost, charges for third party sampling and applicable statutory charges;
- (42) '**Maximum Continuous Rating**' or '**MCR**' in relation to a generating unit of the thermal generating station means the maximum continuous output at the generator terminals, guaranteed by the manufacturer at rated parameters, and in relation to a block of a combined cycle thermal generating station means the maximum continuous output at the generator terminals, guaranteed by the manufacturer with water or steam injection (if applicable) and corrected to 50 Hz grid frequency and specified site conditions;
- (43) '**New Project**' means the generating station or unit thereof achieving its commercial operation on or after 1.4.2019;
- (44) '**Operation and Maintenance Expenses**' or '**O&M expenses**' means the expenditure incurred on operation and maintenance of the project or part thereof, and includes the expenditure on manpower, repairs, spares, consumables, insurance and overheads.
- (45) '**Original Project Cost**' means the actual expenditure incurred by the generating company within the original scope of the project up to the cut-off date as admitted by the Commission;
- (46) '**Plant Availability Factor**' or '**(PAF)**' in relation to a generating station for any period means the average of the daily declared capacities (DCs) for all the days during the period expressed as a percentage of the installed capacity in MW less the normative auxiliary energy consumption;
- (47) '**Plant Load Factor**' or '**(PLF)**' in relation to thermal generating station or unit for a given period means the total sent out energy corresponding to scheduled generation during the period, expressed as a percentage of sent out energy corresponding to installed

capacity in that period and shall be computed in accordance with the following formula:

N

$$N \text{ PLF} = 10000 \times \sum_{i=1}^{N} \frac{SG_i}{\{N \times IC \times (100 - AUX_n)\}} \%$$

Where,

IC = Installed Capacity of the generating station or unit in MW,

SG<sub>i</sub> = Scheduled Generation in MW for the with time block of the period,

N = Number of time blocks during the period, and

AUX<sub>n</sub> = Normative Auxiliary Energy Consumption as a percentage of gross energy generation;

**(48) 'Procedure Regulations'** means the Central Electricity Regulatory Commission (Procedure for making of application for determination of tariff, publication of the application and other related matters) Regulations, 2004;

**(49) 'Project' means:**

- i) In case of thermal generating station, all components of the thermal generating station and includes integrated coal mine, biomass pellet handling system, pollution control system, effluent treatment plan, as may be required;
- ii) In case of hydro generating station, all components of the hydro generating station and includes dam, intake water conductor system, power generating station, as apportioned to power generation

**(50) 'Prudence Check'** means scrutiny of reasonableness of capital expenditure incurred or proposed to be incurred, financing plan, use of efficient technology, cost and time over run and such other factors as may be considered appropriate by the Commission for determination of tariff:

**Explanation:**

While carrying out the Prudence Check, the Commission shall look into whether the generating company has been careful in its judgement and decisions for executing the project or has been careful and vigilant in executing the project:

**(51) 'Pumped Storage Hydro Generating Station'** means a hydro generating station which generates power through energy stored in the form of water energy, pumped from a lower elevation reservoir to a higher elevation reservoir;

**(52) 'Quarter'** means the period of three months commencing on the first day of April, July, October and January of each financial year in case of existing project, and in case of a new project, in respect of the first quarter, from the date of commercial operation to the last day of June, September, December or March, as the case may be;

- (53) **'Revised Emission Standards'** in respect of thermal generating station means the revised norms notified as per Environment (Protection) Amendment Rules, 2015 or any other Rules as may be notified from time to time;
- (54) **'Run-of-River Generating Station'** means a hydro generating station which does not have upstream pondage;
- (55) **'Run-of-River Generating Station with Pondage'** means a hydro generating station with sufficient pondage for meeting the diurnal variation of power demand;
- (56) **'Scheduled Commercial Operation Date or 'SCOD'** shall mean the date(s) of commercial operation of a generating station or generating unit or block thereof as indicated in the Investment Approval or as agreed in power purchase agreement, whichever is earlier;
- (57) **'Scheduled Energy'** means the quantum of energy scheduled by the State Load Despatch Centre to be injected into the grid by a generating station for a given time period;
- (58) **'Scheduled Generation'** or **'SG'** at any time or for any period or time block means schedule of ex-bus generation in MW or MWh, given by the State Load Despatch Centre;
- Explanation :** For open cycle gas turbine generating station or a combined cycle generating station if the average frequency for any time-block, is below 49.52 Hz but not below 49.02 Hz and the scheduled generation is more than 98.5% of the declared capacity, the scheduled generation shall be deemed to have been reduced to 98.5% of the declared capacity, and if the average frequency for any time-block is below 49.02 Hz and the scheduled generation is more than 96.5% of the declared capacity, the scheduled generation shall be deemed to have been reduced to 96.5% of the declared capacity. In such an event of reduction of scheduled generation of gas turbine generating station, the corresponding drawl schedule of beneficiaries shall be corrected in proportion to their scheduled drawl with adjustment of transmission losses on post facto basis.
- (59) **'Small Gas Turbine Generating Station'** means and includes open cycle gas turbine or combined cycle generating station with gas turbines in the capacity range of 50 MW or below;
- (60) **'State'** means the State of Karnataka;
- (61) **'State Load Despatch Centre' or 'SLDC'** means the Centre established by the State Government for the purpose of exercising the powers and discharging the functions under Section 31 of the Act;
- (62) **'State Transmission Utility' or 'STU'** means the Board or the Government company specified as such by the State government under sub-section (1) of section 39 of the Act;

- (63) **'Start Date or Zero Date'** means the date indicated in the Investment Approval for commencement of implementation of the project and where no such date has been indicated, the date of Investment Approval shall be deemed to be Start Date or Zero Date;
- (64) **'Statutory Charges'** comprises taxes, cess, duties, royalties and other charges levied through Acts of the Parliament or State Legislatures or by Indian Government Instrumentality under relevant statutes;
- (65) **'Storage Type Generating Station'** means a hydro generating station associated with storage capacity to enable variation of generation of electricity according to demand;
- (66) **'Thermal Generating Station'** means a generating station or a unit thereof that generates electricity using fossil fuels such as coal, lignite, gas, liquid fuel or combination of these as its primary source of energy or co-firing of biomass with coal;
- (67) **Trial Run' or 'Trial Operation'** in relation to generating station/Transmission system shall have the same meaning as specified in Clause (3) of Regulation 6.3A of Grid Code;
- (68) **'Sub-Station'** shall have the same meaning as defined in sub-section (69) of section 2 of the Act;
- (69) **'Unloading Point'** means the point within the premises of the coal or lignite based thermal generating station where the coal or lignite is unloaded from the rake or truck or any other mode of transport;
- (70) **'Useful Life'** in relation to a unit of a generating station, from the date of commercial operation shall mean the following:
- (a) Coal/Lignite based thermal generating station 25 years
  - (b) Gas/Liquid fuel based thermal generating station 25 years
  - (c) Hydro generating station including pumped storage hydro generating stations 40 years.
- (71) **'Year'** means a financial year from 1st April to 31st March in case of an existing project, and from date of commercial operation to 31st March in case of a new project
- (72) The words and expressions used in these regulations and not defined herein but defined in the Electricity Act, 2003 or any other regulation of the Commission shall have the meaning assigned to them under the said Act or such other regulation.

**CHAPTER - 2****Date of Commercial Operation****4. Date of Commercial Operation:**

The date of commercial operation of a generating station or unit thereof, shall be determined in accordance with the provisions of the Grid Code.

**5. Treatment of mismatch in date of commercial operation:**

In case of mismatch of the date of commercial operation of the generating station and the transmission system, the liability for the transmission charges shall be determined as under:

(a) Where the generating station has not achieved the commercial operation as on the date of commercial operation of the associated transmission system, the generating company shall be liable to pay the transmission charges of the associated transmission system in accordance with clause (5) of Regulation 14 of these regulations to the transmission licensee till the generating station or unit thereof achieves commercial operation:

(b) Where the associated transmission system has not achieved the commercial operation as on the date of commercial operation of the concerned generating station or unit thereof (which is not before the SCOD of the transmission system), the transmission licensee shall make alternate arrangement for the evacuation from the generating station at its own cost, failing which, the transmission licensee shall be liable to pay the transmission charges to the generating company as determined by the Commission, in accordance with clause (5) of Regulation 14 of these regulations, till the transmission system achieves the commercial operation.

**6. Sale of Infirm Power:**

Supply of infirm power shall be accounted as deviation and shall be paid for from the State deviation settlement fund account in accordance with the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and Related matters) Regulations, 2014, as amended from time to time or any subsequent re-enactment thereof, till such time a separate mechanism is evolved.

Provided that any revenue earned by the generating company from supply of infirm power after accounting for the fuel expenses shall be applied in adjusting the capital cost accordingly.



## CHAPTER-3

### Procedure for Tariff determination

#### 7. Tariff determination:

- (1) Tariff in respect of a generating station may be determined for the whole of the generating station or unit thereof, may be determined for a unit or block or stage or for the whole of the generating station:

Provided that:

- (i) In case of commercial operation of all the units of a generating station prior to 01.04.2019, the generating company shall file consolidated petition in respect of the entire generating station for the purpose of determination of tariff for the period 01.04.2019 to 31.03.2024:
- (ii) In case of commercial operation of units of generating station on or after 1.4.2019, the generating company shall file a consolidated petition, in accordance with the provisions of the Procedure Regulations, combining all the units of the generating station which are anticipated to achieve commercial operation during the next two months from the date of application:
- (2) Where only a part of the generation capacity of a generating station is tied up for supplying power to the beneficiaries through long term power purchase agreement, the units for such part capacity shall be clearly identified and in such cases, the tariff shall be determined for such identified capacity. Where the unit(s) corresponding to such part capacity cannot be identified, the tariff of the generating station may be determined with reference to the capital cost of the entire project, but tariff so determined shall be applicable corresponding to the part capacity contracted for supply to the beneficiaries.
- (3) In case of expansion of existing generating station, the tariff shall be determined for the expanded capacity in accordance with these regulations:

Provided that the common infrastructure of existing generating station, shall be utilized for the expanded capacity and the benefit of new technology in the expanded capacity, as determined by the Commission, shall be extended to the existing capacity.

- (4) Assets installed for implementation of the revised emission standards shall form part of the existing generation project and tariff thereof shall be determined separately on submission of the completion certificate by the Board of the generating company.
- (5) Energy charge component of tariff of the generating station sourcing coal or lignite from the integrated mine shall be determined based on the input price of coal or lignite, as the case may be, from such integrated mines:

Provided that the generating company shall maintain the account of the integrated mine separately and submit the cost of integrated mine, in accordance with these regulations, duly certified by the Auditor.

- (6) Tariff of generating station using coal washery rejects developed by Central or State PSUs or Joint Venture between a Government Company and company other than Government Company shall be determined in accordance with these regulations:

Provided that in case of Joint Venture between a Government Company and a Company other than Government Company, the shareholding of the company other than Government Company either directly or through any of its subsidiary company or associate company shall not exceed 26% of the paid up share capital:

Provided further that the energy charge component of the tariff of such generating station or unit thereof shall be determined based on the fixed cost and the variable cost of the coal washery project:

Provided also that the Gross Calorific Value of coal rejects shall be as measured jointly by the generating company and the beneficiaries.

- (7) In case of multi-purpose hydro schemes, with irrigation, flood control and power components, the capital cost chargeable to the power component of the scheme only shall be considered for determination of tariff.

## 8. Application for determination of tariff:

- a) The generating company may make an application for determination of tariff for a new generating station or unit thereof in accordance with these Regulations, in respect of the generating station or generating units thereof within 180 days of the anticipated date of commercial operation.
- b) In case of an existing generating station, the application for determination of tariff shall be made not later than 180 days from the date of notification of these Regulations based on admitted capital cost including any additional capital expenditure already incurred up to 31st day of March, 2019 (either based on actual or projected additional capital expenditure) and estimated additional capital expenditure for the respective years of the tariff period 2019-20 to 2023-24.
- c) In case of emission control system required to be installed in existing generating station or unit thereof to meet the revised emission standard, an application shall be made for determination of Supplementary tariff (capacity charge or energy charge or both) based on the actual capital expenditure duly certified by the Auditor.

- d) Where the generating company has the arrangement for supply of coal or lignite from an integrated mine (s) to one or more generating stations.
- e) The generating company shall make an application as per respective forms annexed to these Regulations, for determination of tariff based on capital expenditure incurred, or projected to be incurred up-to the date of commercial operation duly certified by the auditors, and additional capital expenditure incurred, or projected to be incurred during the tariff period of the generating station duly certified by the auditors:  
Provided that the application shall contain details of underlying assumptions for projected capital cost and additional capital expenditure, wherever applicable.
- f) If the information in application and the Forms is inadequate as required under these regulations, the application shall be returned to the generating company for resubmission within one month after rectifying the defects as may be pointed out by the Commission.
- g) Within thirty working days of the receipt of corrected and completed tariff application, the Commission shall notify the generating company as to whether any additional information is required by the Commission to assess the generating company's calculations and to carryout prudence check of the claims made specifying the date by which such information is to be filed.
- h) If the information furnished as called by the Commission is adequate, the tariff application filed by the generating company will be treated as a petition after the Commission decides that all the information and clarification sought have been produced to the satisfaction of the Commission.
- i) The Commission will thereafter follow, as far as may be practicable, the procedure specified in Chapter-2 of the KERC (General and Conduct of Proceedings) Regulations, 2000, for holding hearing on the tariff application and for passing orders thereon.

## 9) Determination of tariff:

- (1) Tariff in respect of a generating station may be determined for a unit or block or stage or for the whole of the generating station: Provided that;
  - (i) where all the generating units of a stage of a generating station have been declared under commercial operation prior to 1st day of April, 2019, the generating company, shall file consolidated application in respect of the entire generating station for the purpose of determination of tariff for the period from the Financial Years 2019-20 to 2023-24; and

- (ii) in case of commercial operation of the generating station being on or after 1st day of April, 2019, the generating company shall file a consolidated petition in respect of all the units of the generating station which are likely to be commissioned during next six months from the date of application
- (2) For the purpose of determination of tariff, the capital cost of the project may be broken up into stages and distinct units or blocks forming part of the project if required:

Provided that where break-up of the capital cost of the project for different stages or units or blocks is not available or the project is an on-going project, the common facilities shall be apportioned on the basis of the installed capacity of the units:

Provided further that in relation to multi-purpose hydro schemes with irrigation, flood control and power components, the capital cost chargeable to the power component of the scheme only shall be considered for determination of tariff.

- (3) Where only a part of the generation capacity of a generating station is tied up for supplying power to the beneficiaries through long term power purchase agreement and the balance part of the generation capacity has not been tied up for supplying power to the beneficiaries, the tariff of the generating station shall be determined with reference to the capital cost of the entire project, but the tariff so determined shall be applicable to the corresponding capacity contracted for supply to the beneficiaries.

#### 10) PUBLICATION OF THE PETITION:

The Generating Company shall arrange for publication of the tariff application in the following manner.

- a) The summary of the tariff application, in such format as may be approved by the Commission, shall be published in two successive issues each of two daily newspapers in English language and two daily newspapers in Kannada language having wide circulations in the area of operation of the generating company. The advertisement shall invite the licensees/ interested persons to file their objections and such documents as they seek to rely upon, supported by an affidavit, in six copies, within 30 working days of the first advertisement.
- (b) The generating company shall also specify in the advertisement that interested persons may inspect the copies of the petition at specified offices of the generating company during normal working hours and/or also obtain the salient features of the petition at

such specified place on payment of an amount not exceeding the cost of photo copying, before the last date fixed for filing of objections.

- (c) The generating company shall also mention in the advertisement that a full set of the application together with supporting materials would be made available to any interested person who may ask for it on payment of an amount, not exceeding the cost of photocopying.
- (d) The generating company shall provide, along application to the Commission, the details in such formats as may be required by the Commission. The generating company shall necessarily provide unit-wise and station-wise details as envisaged in the formats to enable the Commission to determine tariff as required.
- (e) The generating company shall furnish to the Commission all such material, books and records including the accounting statements, operational cost data as may be required by the Commission for determination of tariff.
- (f) The generating company shall host all the details of the petition filed before the Commission on its website not later than three working days of its acceptance by the Commission. The generating company shall also host the information on the observations made by the Commission and the replies submitted to the Commission thereon, within three working days of submission of replies to the Commission.

#### 11) In-principle approval in specific circumstances:

The generating company undertaking any additional capitalization on account of change in law events or force majeure conditions may file petition for in-principle approval for incurring such expenditure after prior notice to the beneficiaries along with underlying assumptions, estimates and justification for such expenditure if the estimated expenditure exceeds 10% of the admitted capital cost of the project or Rs.100 Crore, whichever is lower.

#### 12) Truing up of tariff for the period 2014-19:

Tariff of the generating stations for the period 2014-19 shall be trued up in accordance with the provisions of Regulation of KERC (Terms and Conditions for Determination of Generation Tariff) Regulation 2014 along with the tariff petition for the period 2019-24. The capital cost admitted as on 31.3.2019 based on the truing up shall form the basis of the opening capital cost as on 1.4.2019 for the tariff determination for the period 2019-24.

#### 13) Truing up of tariff for the period 2019-24:

- (1) The Commission shall carry out truing up exercise for the period 2019-24 along with the tariff petition filed for the next tariff period, for the following:

- a) The capital expenditure including additional capital expenditure incurred up to 31.3.2024, as admitted by the Commission after prudence check at the time of truing up:
  - b) The capital expenditure including additional capital expenditure incurred up to 31.3.2024, on account of Force Majeure and Change in Law.
- (2) The generating company shall make an application, as per Annexure to these regulations, for carrying out truing up exercise in respect of the generating station or a unit thereof by 30.11.2024.
- (3) The generating company may make an application for interim truing up of tariff in the year 2021-22, if the annual fixed cost increases by more than 20% over the annual fixed cost as determined by the Commission for the respective years of the tariff period:
- Provided that if the actual additional capital expenditure falls short of the projected additional capital expenditure allowed under provisions of Chapter 7 of these regulations, the generating company, shall not be required to file any interim true up petition for this purpose and shall refund to the beneficiaries the excess tariff recovered corresponding to the projected additional capital expenditure not incurred at the bank rate as on 1st April of the respective years, under intimation to the Commission:
- Provided further that the generating company shall submit the complete details along with the calculations of the refunds made to the beneficiaries at the time of true up.
- (4) After truing up, if the tariff already recovered exceeds or falls short of the tariff approved by the Commission under these regulations, the generating company shall refund to or recover from, the beneficiaries the excess or the shortfall amount along with simple interest at the rate equal to the bank rate as on 1st April of the respective years of the tariff period in six equal monthly instalments.

## CHAPTER-4

### TARIFF STRUCTURE

#### 14) Components of Tariff:

- 1) The tariff for supply of electricity from a thermal generating station shall comprise two parts, namely, capacity charge (for recovery of annual fixed cost consisting of the components as specified in Regulation 15 of these regulations) and energy charge (for recovery of primary and secondary fuel cost and cost of limestone and any other reagent, where applicable as specified in Regulation 16 of these regulations).
- 2) The supplementary capacity charges for additional capitalization and supplementary energy charges, on account of implementation of revised emission standards in existing

generating station or new generating station, as the case may be, shall be determined by the Commission separately.

- 3) The capacity charge and energy charge of a generating station shall be determined in accordance with the provisions of Chapter 10 of these regulations.
- 4) Provided that where the generating company has the arrangement for supply of coal or lignite from the integrated mine(s) allocated to it, for use in one or more of its generating stations as end use, the energy charge component of tariff of the generating station shall be determined based on the input price of coal or lignite, as the case may be, from such integrated mines computed in accordance with the regulations to be notified separately by the Commission. Till the regulation for computation of input price of coal is notified, the generating company shall continue to adopt the notified price of Coal India Limited commensurate with the grade of the coal from the integrated mine

Provided further that after notification of the regulation for input price of coal, the same shall be applicable from 1.4.2019 or the date of commercial operation of the integrated mine, whichever is later, and the difference between the input price of coal so decided and the input price of coal for quantity billed shall be adjusted in accordance with the regulations to be notified.

- 5) The tariff for supply of electricity from a hydro generating station shall comprise capacity charge and energy charge to be derived in the manner specified in Regulation 44 or 45 of these regulations, as may be applicable, for recovery of annual fixed cost consisting of the components referred to in Regulation 15 of these regulations.
- 6) The tariff for transmission of electricity on inert-state transmission system shall comprise transmission charges for recovery of annual fixed cost consisting of the components specifies in Regulation 15 of these regulation.

## 15) Capacity Charges:

The capacity charges shall be derived on the basis of annual fixed cost. The Annual Fixed Cost (AFC) of a generating station shall consist of the following components:

- (a) Return on equity;
- (b) Interest on loan capital;
- (c) Depreciation;
- (d) Interest on working capital; and
- (e) Operation and maintenance expenses:

Provided that Special Allowance In lieu of R&M, where opted in accordance with Regulation 28 of these regulations, shall be recovered separately and shall not be considered for computation of working capital.

**16) Energy Charges:**

Energy charges shall be derived on the basis of the landed fuel cost (LFC) of a generating station (excluding hydro) and shall consist of the following cost:

- (a) Landed Fuel Cost of primary fuel;
- (b) Cost of secondary fuel oil consumption; and
- (c) Cost of limestone or any other reagent, as applicable:

Provided that any refund of taxes and duties along with any amount received on account of penalties from fuel supplier shall be adjusted in fuel cost: Provided further that the supplementary energy charges, if any, on account of meeting the revised emission standards in case of a thermal generating station shall be determined separately by the Commission.

**17) Special Provisions for Tariff for Thermal Generating Station which have Completed 25 Years of Operation from Date of Commercial Operation:**

- (1) In respect of a thermal generating station that has completed 25 years of operation from the date of commercial operation, the generating company and the beneficiary may agree on an arrangement, including provisions for target availability and incentive, where in addition to the energy charge, capacity charges determined by the Commission under these regulations shall also be recovered based on scheduled generation.
- (2) The beneficiary shall have the first right of refusal and upon its refusal to enter into an arrangement as above, the generating company shall be free to sell the electricity generated from such station in a manner as it deems fit.

**CHAPTER-5****Capital Structure****18) Debt-Equity Ratio:**

- 1. For new projects, the debt-equity ratio of 70:30 as on date of commercial operation shall be considered. If the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan:

Provided that:

- I. where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff:
- II. The equity invested in foreign currency shall be designated in Indian rupees on the date of each investment:



III. Any grant obtained for the execution of the project shall not be considered as a part of capital structure for the purpose of debt: equity ratio.

**Explanation**-The premium, if any, raised by the generating company while issuing share capital and investment of internal resources created out of its free reserve, for the funding of the project, shall be reckoned as paid up capital for the purpose of computing return on equity, only if such premium amount and internal resources are actually utilised for meeting the capital expenditure of the generating station.

2. The generating company, shall submit the resolution of the Board of the company or approval of the competent authority in other cases regarding infusion of funds from internal resources in support of the utilization made or proposed to be made to meet the capital expenditure of the generating station;
3. In case of the generating station declared under commercial operation prior to 1.4.2019, debt: equity ratio allowed by the Commission for determination of tariff for the period ending 31.3.2019 shall be considered:

Provided that in case of a generating station which has completed its useful life as on or after 1.4.2019, if the equity actually deployed as on 1.4.2019 is more than 30% of the capital cost, equity in excess of 30% shall not be taken into account for tariff computation;

4. In case of the generating station declared under commercial operation prior to 1.4.2019, but where debt: equity ratio has not been determined by the Commission for determination of tariff for the period ending 31.3.2019, the Commission shall approve the debt: equity ratio in accordance with clause (1) of this Regulation.
5. Any expenditure incurred or projected to be incurred on or after 1.4.2019 as may be admitted by the Commission as additional capital expenditure for determination of tariff, and renovation and modernisation expenditure for life extension shall be serviced in the manner specified in clause (1) of this Regulation.

## CHAPTER - 6

### Computation of Capital Cost

#### 19) Capital Cost:

- (1) The Capital cost of the generating station as determined by the Commission after prudence check in accordance with these regulations shall form the basis for determination of tariff for existing and new projects.
- (2) The Capital Cost of a new project shall include the following:
  - (a) The expenditure incurred or projected to be incurred up to the date of commercial operation of the project;

- (b) Interest during construction and financing charges, on the loans
    - (i) being equal to 70% of the funds deployed, in the event of the actual equity in excess of 30% of the funds deployed, by treating the excess equity as normative loan, or
    - (ii) being equal to the actual amount of loan in the event of the actual equity less than 30% of the funds deployed;
  - (c) Any gain or loss on account of foreign exchange risk variation pertaining to the loan amount availed during the construction period;
  - (d) Interest during construction and incidental expenditure during construction as computed in accordance with these regulations;
  - (e) Capitalised initial spares subject to the ceiling rates in accordance with these regulations;
  - (f) Expenditure on account of additional capitalization and de-capitalisation determined in accordance with these regulations;
  - (g) Adjustment of revenue due to sale of infirm power in excess of fuel cost prior to the date of commercial operation as specified under Regulation 6 of these regulations;
  - (h) Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal up to the receiving ends of the generating station but does not include the transportation cost and any other appurtenant cost paid to the railway;
  - (i) Capital expenditure on account of biomass handling equipment and facilities, for co-firing;
  - (j) Capital expenditure on account of ash disposal and utilization including handling and transportation facility;
  - (k) Capital expenditure on account of emission control system necessary to meet the revised emission standards and sewage treatment plant;
  - (l) Expenditure on account of fulfilment of any conditions for obtaining environment clearance for the project;
  - (m) Expenditure on account of change in law and force majeure events; and
  - (n) Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries.
- (3) The Capital cost of an existing project shall include the following:
- (a) Capital cost admitted by the Commission prior to 1.4.2019 duly tried up by excluding liability, if any, as on 1.4.2019;

- (b) Additional capitalization and de-capitalization for the respective year of tariff as determined in accordance with these regulations;
  - (c) Capital expenditure on account of renovation and modernisation as admitted by this Commission in accordance with these regulations;
  - (d) Capital expenditure on account of ash disposal and utilization including handling and transportation facility;
  - (e) Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal up to the receiving end of generating station but does not include the transportation cost and any other appurtenant cost paid to the railway; and
  - (f) Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries.
- (4) The capital cost in case of existing or new hydro generating station shall also include:
- (a) cost of approved rehabilitation and resettlement (R&R) plan of the project in conformity with National R&R Policy and R&R package as approved; and
  - (b) cost of the developer's 10% contribution towards Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) and Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) project in the affected area.
- (5) The following shall be excluded from the capital cost of the existing and new projects:
- (a) The assets forming part of the project, but not in use, as declared in the tariff petition;
  - (b) De-capitalised Assets after the date of commercial operation on account of replacement or removal on account of obsolescence or shifting from one project to another project: Provided further that unless shifting of an asset from one project to another is of permanent nature, there shall be no de-capitalization of the concerned assets.
  - (c) In case of hydro generating stations, any expenditure incurred or committed to be incurred by a project developer for getting the project site allotted by the State Government by following a transparent process;
  - (d) Proportionate cost of land of the existing project which is being used for generating power from generating station based on renewable energy; and
  - (e) Any grant received from the Central or State Government or any statutory body or authority for the execution of the project which does not carry any liability of repayment.

**20) Prudence Check of Capital Cost**

The following principles shall be adopted for prudence checks of capital cost of the existing or new projects:

- 1) In case of the thermal generating station, prudence check of capital cost shall include scrutiny of the capital expenditure, in the light of capital cost of similar projects based on past historical data, wherever available, reasonableness of financing plan, interest during construction, incidental expenditure during construction, use of efficient technology, cost over-run and time over-run, procurement of equipment and materials through competitive bidding and such other matters as may be considered appropriate by the Commission:

Provided that, while carrying out the prudence check, the Commission shall also examine whether the generating company has been careful in its judgments and decisions in execution of the project.

- 2) The Commission may, for the purpose of vetting of capital cost of hydro generating stations, appoint an independent agency or an expert body:
- 3) Where the power purchase agreement entered into between the generating company and the beneficiaries provides for ceiling of actual capital expenditure, the Commission shall take into consideration such ceiling for prudence check.
- 4) The generating company shall furnish the capital cost for execution of the existing and new projects as per Forms annexed to these Regulations along with tariff petition for the purpose of creating a database of benchmark capital cost of various components.

**21) Interest During Construction (IDC) and Incidental Expenditure during Construction (IEDC)**

- 1) Interest during construction (IDC) shall be computed corresponding to the loan from the date of infusion of debt fund, and after taking into account the prudent phasing of funds up to SCOD.
- 2) Incidental expenditure during construction (IEDC) shall be computed from the zero date, taking into account pre-operative expenses up to SCOD:

Provided that any revenue earned during construction period up to SCOD on account of interest on deposits or advances, or any other receipts shall be taken into account for reduction in incidental expenditure during construction.

- 3) In case of additional costs on account of IDC and IEDC due to delay in achieving the COD, the generating company shall be required to furnish detailed justifications with supporting documents for such delay including prudent phasing of funds in case of IDC

and details of IEDC during the period of delay and liquidated damages recovered or recoverable corresponding to the delay.

- 4) If the delay in achieving the COD is not attributable to the generating company IDC and IEDC beyond SCOD may be allowed after prudence check and the liquidated damages, if any, recovered from the contractor or supplier or agency shall be adjusted in the capital cost of the generating station
- 5) If the delay in achieving the COD is attributable either in entirety or in part to the generating company or its contractor or supplier or agency, in such cases, IDC and IEDC beyond SCOD may be disallowed after prudence check either in entirety or on pro-rata basis corresponding to the period of delay not condoned and the liquidated damages, if any, recovered from the contractor or supplier or agency shall be retained by the generating company

## 22) Controllable and Uncontrollable factors:

The following shall be considered as controllable and uncontrollable factors for deciding time over-run, cost escalation, IDC and IEDC of the project:

- (1) The "controllable factors" shall include but shall not be limited to the following:
  - a. Efficiency in the implementation of the project not involving approved change in scope of such project, change in statutory levies or change in law or force majeure events; and
  - b. Delay in execution of the project on account of contractor or supplier or agency of the generating company.
- (2) The "uncontrollable factors" shall include but shall not be limited to the following:
  - a. Force Majeure events;
  - b. Change in law; and
  - c. Land acquisition except where the delay is attributable to the generating company.

## 23) Initial Spares

Initial spares shall be capitalised as a percentage of the Plant and Machinery cost, subject to following ceiling norms:

- (a) Coal-based/lignite-fired thermal generating stations - 4.0%
- (b) Gas Turbine/Combined Cycle thermal generating stations- 4.0%
- (c) Hydro generating stations including pumped storage hydro generating station - 4.0%

**Provided that:**

- i. Plant and Machinery cost shall be considered as the original project cost excluding IDC, IEDC, Land Cost and Cost of Civil Works. The generating company for the

- purpose of estimating Plant and Machinery Cost, shall submit the break-up of head wise IDC and IEDC in its tariff application;
- ii. Where the generating station has any transmission equipment forming part of the generation project, the ceiling norms for initial spares for such equipment shall be as per the ceiling norms specified for transmission system by the KERC.

## CHAPTER-7

### Computation of Additional Capital Expenditure

#### 24) Additional Capitalisation within the original scope and up to the cut-off date:

- (1) The additional capital expenditure in respect of a new project or an existing project incurred or projected to be incurred, on the following counts within the original scope of work, after the date of commercial operation and up to the cut-off date may be admitted by the Commission, subject to prudence check:
- (a) Undischarged liabilities recognized to be payable at a future date;
  - (b) Works deferred for execution;
  - (c) Procurement of initial capital spares within the original scope of work, in accordance with the provisions of Regulation 23 of these regulations;
  - (d) Liabilities to meet award of arbitration or for compliance of the directions or order of any statutory authority or order or decree of any court of law;
  - (e) Change in law or compliance of any existing law; and
  - (f) Force Majeure events:

Provided that in case of any replacement of the assets, the additional capitalization shall be worked out after adjusting the gross fixed assets and cumulative depreciation of the assets replaced on account of de-capitalization.

- (2) The generating company shall submit the details of works asset wise/work wise included in the original scope of work along with estimates of expenditure, liabilities recognized to be payable at a future date and the works deferred for execution.

#### 25) Additional Capitalisation within the original scope and after the cut-off date:

- (1) The additional capital expenditure incurred or projected to be incurred in respect of an existing project or a new project on the following counts within the original scope of work and after the cut-off date may be admitted by the Commission, subject to prudence check:
- (a) Liabilities to meet award of arbitration or for compliance of the directions or order of any statutory authority, or order or decree of any court of law;
  - (b) Change in law or compliance of any existing law;

- (c) Deferred works relating to ash pond or ash handling system in the original scope of work;
  - (d) Liability for works executed prior to the cut-off date;
  - (e) Force Majeure events;
  - (f) Liability for works admitted by the Commission after the cut-off date to the extent of discharge of such liabilities by actual payments; and
  - (g) Raising of ash dyke as a part of ash disposal system.
- (2) In case of replacement of assets deployed under the original scope of the existing project after cut-off date, the additional capitalization may be admitted by the Commission, after making necessary adjustments in the gross fixed assets and the cumulative depreciation, subject to prudence check on the following grounds:
- (a) The useful life of the assets is not commensurate with the useful life of the project and such assets have been fully depreciated in accordance with the provisions of these regulations;
  - (b) The replacement of the asset or equipment is necessary on account of change in law or Force Majeure conditions;
  - (c) The replacement of such asset or equipment is necessary on account of obsolescence of technology; and
  - (d) The replacement of such asset or equipment has otherwise been allowed by the Commission.

## 26) Additional Capitalisation beyond the original scope

- (1) The capital expenditure, in respect of existing generating station, incurred or projected to be incurred on the following counts beyond the original scope, may be admitted by the Commission, subject to prudence check:
- (a) Liabilities to meet award of arbitration or for compliance of order or directions of any statutory authority, or order or decree of any court of law;
  - (b) Change in law or compliance of any existing law;
  - (c) Force Majeure events;
  - (d) Need for higher security and safety of the plant as advised or directed by appropriate Indian Government Instrumentality or statutory authorities responsible for national or internal security;
  - (e) Deferred works relating to ash pond or ash handling system in additional to the original scope of work, on case to case basis  
Provided also that if any expenditure has been claimed under Renovation and Modernisation (R&M) or repairs and maintenance under O&M expenses, the same shall not be claimed under this Regulation;
  - (f) Usage of water from sewage treatment plant in thermal generating station.

- (2) In case of de-capitalisation of assets of a generating company the original cost of such asset as on the date of decapitalisation shall be deducted from the value of gross fixed asset and corresponding loan as well as equity shall be deducted from outstanding loan and the equity respectively in the year such de-capitalisation takes place with corresponding adjustments in cumulative depreciation and cumulative repayment of loan, duly taking into consideration the year in which it was capitalised.

## 27) Additional Capitalisation on account of Renovation and Modernisation

- (1) The generating company intending to undertake renovation and modernization (R&M) of the generating station or unit for the purpose of extension of life beyond the originally recognised useful life for the purpose of tariff, shall file a petition before the Commission for approval of the proposal with a Detailed Project Report giving complete scope, justification, cost-benefit analysis, estimated life extension from a reference date, financial package, phasing of expenditure, schedule of completion, reference price level, estimated completion cost including foreign exchange component, if any, and any other information considered to be relevant by the generating company.

Provided that the generating company making the applications for renovation and modernization (R&M) shall not be eligible for Special Allowance under Regulation 28 of these regulations;

Provided further that the generating company intending to undertake renovation and modernization (R&M) shall be required to obtain the consent of the beneficiaries for such renovation and modernization (R&M) and submit the same along with the petition.

- (2) Where the generating company, makes an application for approval of its proposal for renovation and modernisation (R&M), approval may be granted after due consideration of reasonableness of the proposed cost estimates, financing plan, schedule of completion, interest during construction, use of efficient technology, cost-benefit analysis, expected duration of life extension, consent of the beneficiaries, if obtained, and such other factors as may be considered relevant by the Commission.
- (3) In case of gas/ liquid fuel based open/ combined cycle thermal generating station after 25 years of operation from date of commercial operation, any additional capital expenditure which has become necessary for renovation of gas turbines/steam turbine or additional capital expenditure necessary due to obsolescence or non-availability of spares for efficient operation of the stations shall be allowed:

Provided that any expenditure included in the renovation and modernisation (R&M) on consumables and cost of components and spares which is generally covered in the O&M expenses during the major overhaul of gas turbine shall be suitably deducted from the expenditure to be allowed after prudence check.



- (4) After completion of the renovation and modernisation (R&M), the generating company, shall file a petition for determination of tariff. Expenditure incurred or projected to be incurred and admitted by the Commission after prudence check, and after deducting the accumulated depreciation already recovered from the admitted project cost, shall form the basis for determination of tariff.

## 28) Special Allowance for Coal-based/Lignite fired Thermal Generating station

- (1) In case of coal-based/lignite fired thermal generating stations, the generating company, instead of availing renovation and modernization (R&M) may opt to avail a 'special allowance' in accordance with the norms specified in this Regulation, as compensation for meeting the requirement of expenses including renovation and modernisation beyond the useful life of the generating station or a unit thereof and in such an event, upward revision of the capital cost shall not be allowed and the applicable operational norms shall not be relaxed but the Special Allowance shall be included in the annual fixed cost:

Provided that such option shall not be available for a generating station or unit thereof for which renovation and modernization has been undertaken and the expenditure has been admitted by the Commission before commencement of these regulations, or for a generating station or unit which is in a depleted condition or operating under relaxed operational and performance norms;

Provided further that special allowance shall also be available for a generating station which has availed the Special Allowance during the tariff period 2009-14 or 2014-19 as applicable from the date of completion of the useful life.

- (2) The Special Allowance admissible to a generating station shall be @ Rs 9.5 lakh per MW per year for the tariff period 2019-24.
- (3) In the event of a generating station availing Special Allowance, the expenditure incurred upon or utilized from Special Allowance shall be maintained separately by the generating station and details of same shall be made available to the Commission as and when directed.
- (4) The Special Allowance allowed under this Regulation shall be transferred to a separate fund for utilization towards Renovation & Modernisation activities, for which detailed methodology shall be issued separately.

## 29) Additional Capitalization on account of Revised Emission Standards:

- 1) A generating company requiring to incur additional capital expenditure in the existing generating station for compliance of the revised emissions standards shall share its

proposal with the beneficiaries and file a petition for undertaking such additional capitalization.

- 2) The proposal under clause (1) above shall contain details of proposed technology as specified by the Central Electricity Authority, scope of the work, phasing of expenditure, schedule of completion, estimated completion cost including foreign exchange component, if any, detailed computation of indicative impact on tariff to the beneficiaries, and any other information considered to be relevant by the generating company.
- 3) Where the generating company makes an application for approval of additional capital expenditure on account of implementation of revised emission standards, the Commission may grant approval after due consideration of the reasonableness of the cost estimates, financing plan, schedule of completion, interest during construction, use of efficient technology, cost-benefit analysis, and such other factors as may be considered relevant by the Commission
- 4) After completion of the implementation of revised emission standards, the generating company shall file a petition for determination of tariff. Any expenditure incurred or projected to be incurred and admitted by the Commission after prudence check based on reasonableness of the cost and impact on operational parameters shall form the basis of determination of tariff.

## CHAPTER - 8

### Computation of Annual Fixed Cost

#### 30) Return on Equity:

- (1) Return on equity shall be computed in rupee terms, on the equity base determined in accordance with Regulation 18 of these regulations.
- (2) Return on equity shall be computed at the base rate of 15.00% for thermal generating station, and run-of river hydro generating station, and at the base rate of 15.50% for the storage type hydro generating stations including pumped storage hydro generating stations and run-of river generating station with pondage:

Provided that return on equity in respect of additional capitalization after cut-off date beyond the original scope excluding additional capitalization due to Change in Law, shall be computed at the weighted average rate of interest on actual loan portfolio of the generating station. Provided further that:

- i. In case of a new project, the rate of return on equity shall be reduced by 1.00% for such period as may be decided by the Commission, if the generating station is found to be declared under commercial operation without commissioning of any

- of the Restricted Governor Mode Operation (RGMO) or Free Governor Mode Operation (FGMO), data telemetry, communication system up to load dispatch centre or protection system based on the report submitted by the State LDC;
- ii. In case of existing generating station, as and when any of the requirements under (i) above of this Regulation are found lacking based on the report submitted by the State LDC, rate of return on equity shall be reduced by 1.00% for the period for which the deficiency continues;
  - iii. in case of a thermal generating station,
    - a) rate of return on equity shall be reduced by 0.25% in case of failure to achieve the ramp rate of 1% per minute;
    - b) an additional rate of return on equity of 0.25% shall be allowed for every incremental ramp rate of 1% per minute achieved over and above the ramp rate of 1% per minute, subject to ceiling of additional rate of return on equity of 1.00%:

Provided that the detailed guidelines and date of effect in this regard shall be issued by State Load Dispatch Centre within 90 days from the date of Notification in Official Gazette.

### 31) Tax on Return on Equity

- (1) The base rate of return on equity as allowed by the Commission under Regulation 30 of these regulations shall be grossed up with the effective tax rate of the respective financial year. For this purpose, the effective tax rate shall be considered on the basis of actual tax paid in respect of the financial year in line with the provisions of the relevant Finance Acts by the concerned generating company. The actual tax paid on income from other businesses including deferred tax liability (i.e. income from business other than business of generation shall be excluded for the calculation of effective tax rate.
- (2) Rate of return on equity shall be rounded off to three decimal places and shall be computed as per the formula given below:

$$\text{Rate of pre-tax return on equity} = \text{Base rate} / (1-t)$$

Where, "t" is the effective tax rate in accordance with clause (1) of this Regulation and shall be calculated at the beginning of every financial year based on the estimated profit and tax to be paid estimated in line with the provisions of the relevant Finance Act applicable for that financial year to the company on pro-rata basis by excluding the income of non-generation and the corresponding tax thereon. In case of generating company paying Minimum Alternate Tax (MAT), "t" shall be considered as MAT rate including surcharge and cess.

**Illustration-**

- i. In case of a generating company paying Minimum Alternate Tax (MAT) @ 21.55% including surcharge and cess:

$$\text{Rate of return on equity} = 15.50 / (1 - 0.2155) = 19.758\%$$

- ii. In case of a generating company paying normal corporate tax including surcharge and cess:

(a) Estimated Gross Income from generation for FY 2019-20 is Rs 1,000 crore;

(b) Estimated Advance Tax for the year on above is Rs 240 crore;

(c) Effective Tax Rate for the year 2019-20 = Rs 240 Crore / Rs 1000 Crore = 24%;

(d) Rate of return on equity =  $15.50 / (1 - 0.24) = 20.395\%$ .

- (3) The generating company shall true up the grossed up rate of return on equity at the end of every financial year based on actual tax paid together with any additional tax demand including interest thereon, duly adjusted for any refund of tax including interest received from the income tax authorities pertaining to the tariff period 2019-24 on actual gross income of any financial year. However, penalty, if any, arising on account of delay in deposit or short deposit of tax amount shall not be claimed by the generating company. Any under-recovery or over-recovery of grossed up rate on return on equity after truing up, shall be recovered or refunded to beneficiaries on year to year basis.

**32) Interest on loan capital:**

- 1) The loans arrived at in the manner indicated in Regulation 18 of these Regulations shall be considered as gross normative loan for calculation of interest on loan.
- 2) (2) The normative loan outstanding as on 1.4.2019 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.3.2019 from the gross normative loan.
- 3) (3) The repayment for each of the year of the tariff period 2019-24 shall be deemed to be equal to the depreciation allowed for the corresponding year/period. In case of de-capitalization of assets, the repayment shall be adjusted by taking into account cumulative repayment on a pro rata basis and the adjustment should not exceed cumulative depreciation recovered up to the date of de-capitalisation of such asset.
- 4) Notwithstanding any moratorium period availed by the generating company the repayment of loan shall be considered from the first year of commercial operation of the project and shall be equal to the depreciation allowed for the year or part of the year.
- 5) The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio after providing appropriate accounting adjustment for interest capitalized: Provided that if there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average rate of interest shall be considered; Provided further that if the generating station does not have actual loan,

then the weighted average rate of interest of the generating company whole shall be considered.

- 6) The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.
- 7) The changes to the terms and conditions of the loans shall be reflected from the date of such re-financing.

### 33) Depreciation

- 1) Depreciation shall be computed from the date of commercial operation of a generating station. In case of the tariff of all the units of a generating station for which a single tariff needs to be determined, the depreciation shall be computed from the effective date of commercial operation of the generating station taking into consideration the depreciation of individual units:

Provided that effective date of commercial operation shall be worked out by considering the actual date of commercial operation and installed capacity of all the units of the generating station for which single tariff needs to be determined.

- 2) The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission. In case of multiple units of a generating station, weighted average life for the generating station shall be applied. Depreciation shall be chargeable from the first year of commercial operation. In case of commercial operation of the asset for part of the year, depreciation shall be charged on pro rata basis.
- 3) The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset:

Provided that the salvage value for IT equipment and software shall be considered as NIL and 100% value of the assets shall be considered depreciable; Provided further that in case of hydro generating stations, the salvage value shall be as provided in the agreement, if any, signed by the developers with the State Government for development of the generating station:

Provided also that the capital cost of the assets of the hydro generating station for the purpose of computation of depreciated value shall correspond to the percentage of sale of electricity under long-term power purchase agreement at regulated tariff:

Provided also that any depreciation disallowed on account of lower availability of the generating station or unit shall not be allowed to be recovered at a later stage during the useful life or the extended life.

- 4) Land other than the land held under lease and the land for reservoir in case of hydro generating station shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the asset.
- 5) Depreciation shall be calculated annually based on Straight Line Method and at rates specified in Appendix to these regulations for the assets of the generating station

Provided that the remaining depreciable value as on 31st March of the year closing after a period of 12 years from the effective date of commercial operation of the station shall be spread over the balance useful life of the assets

- 6) In case of the existing projects, the balance depreciable value as on 1.4.2019 shall be worked out by deducting the cumulative depreciation as admitted by the Commission up to 31.3.2019 from the gross depreciable value of the assets.
- 7) The generating company shall submit the details of proposed capital expenditure five years before the completion of useful life of the project along with justification and proposed life extension. The Commission based on prudence check of such submissions shall approve the depreciation on capital expenditure.
- 8) In case of de-capitalization of assets in respect of generating station or unit, the cumulative depreciation shall be adjusted by taking into account the depreciation recovered in tariff by the decapitalized asset during its useful services.

### 34) Interest on Working Capital

- (1) The working capital shall cover:

#### (a) For Coal-based/lignite-fired thermal generating stations:

- (i) Cost of coal or lignite and limestone towards stock, if applicable, for 10 days for pit-head generating stations and 20 days for non-pit-head generating stations for generation corresponding to the normative annual plant availability factor or the maximum coal/lignite stock storage capacity whichever is lower;
- (ii) Advance payment for 30 days towards cost of coal or lignite and limestone for generation corresponding to the normative annual plant availability factor;
- (iii) Cost of secondary fuel oil for two months for generation corresponding to the normative annual plant availability factor, and in case of use of more than one secondary fuel oil, cost of fuel oil stock for the main secondary fuel oil;
- (iv) Maintenance spares @ 20% of operation and maintenance expenses including water charges and security expenses;
- (v) Receivables equivalent to 45 days of capacity charge and energy charge for sale of electricity calculated on the normative annual plant availability factor; and

- (vi) Operation and maintenance expenses, including water charges and security expenses, for one month.

**(b) For Open-cycle Gas Turbine/Combined Cycle thermal generating stations:**

- (i) Fuel cost for 30 days corresponding to the normative annual plant availability factor, duly taking into account mode of operation of the generating station on gas fuel and liquid fuel;
- (ii) Liquid fuel stock for 15 days corresponding to the normative annual plant availability factor, and in case of use of more than one liquid fuel, cost of main liquid fuel duly taking into account mode of operation of the generating stations of gas fuel and liquid fuel;
- (iii) Maintenance spares @ 30% of operation and maintenance expenses including water charges and security expenses;
- (iv) Receivables equivalent to 45 days of capacity charge and energy charge for sale of electricity calculated on normative plant availability factor, duly taking into account mode of operation of the generating station on gas fuel and liquid fuel; and
- (v) Operation and maintenance expenses, including water charges and security expenses, for one month.

**(c) For Hydro Generating Station including Pumped Storage Hydro Generating Station:**

- (i) Receivables equivalent to 45 days of annual fixed cost;
- (ii) Maintenance spares @ 15% of operation and maintenance expenses including security expenses; and
- (iii) Operation and maintenance expenses, including security expenses for one month.

- (2) The cost of fuel in cases covered under sub-clauses (a) and (b) of clause (1) of this Regulation shall be based on the landed fuel cost (taking into account normative transit and handling losses in terms of Regulation 38 of these regulations) by the generating station and gross calorific value of the fuel as per actual weighted average for the third quarter of preceding financial year in case of each financial year for which tariff is to be determined:

Provided that in case of new generating station, the cost of fuel for the first financial year shall be considered based on landed fuel cost (taking into account normative transit and handling losses in terms of Regulation 38 of these regulations) and gross calorific value of the fuel as per actual weighted average for three months, as used for infirm power, preceding date of commercial operation for which tariff is to be determined.

- (3) Rate of interest on working capital shall be on normative basis and shall be considered as the bank rate as on 1.4.2019 or as on 1st April of the year during the tariff period

2019-24 in which the generating station or a unit thereof as the case may be, is declared under commercial operation, whichever is later:

Provided that in case of truing-up, the rate of interest on working capital shall be considered at bank rate as on 1st April of each of the financial year during the tariff period 2019-24.

- (4) Interest on working capital shall be payable on normative basis notwithstanding that the generating company has not taken loan for working capital from any outside agency.

### 35) Operation and Maintenance Expenses:

- (1) **Thermal Generating Station:** Normative Operation and Maintenance expenses of thermal generating stations shall be as follows:

- (1) Coal based and lignite fired (including those based on Circulating Fluidized Bed Combustion (CFBC) technology) generating stations, other than the generating stations or units.

(in Rs Lakh/MW)

Year	200/210/250 MW Series	300/330/350 MW Series	500 MW Series	600 -700 MW Series	800 MW Series and above
FY 2019-20	32.96	27.74	22.51	20.26	18.23
FY 2020-21	34.12	28.71	23.30	20.97	18.87
FY 2021-22	35.31	29.72	24.12	21.71	19.54
FY 2022-23	36.56	30.76	24.97	22.47	20.22
FY 2023-24	37.84	31.84	25.84	23.26	20.93

Provided that where the date of commercial operation of any additional unit(s) of a generating station after first four units occurs on or after 1.4.2019, the O&M expenses of such additional unit(s) shall be admissible at 90% of the operation and maintenance expenses as specified above;



(1) Open Cycle Gas Turbine/Combined Cycle generating stations Lignite-fired generating stations:

(in Rs Lakh/MW)

Year	Gas Turbine/Combined Cycle Generating stations other than small gas turbine power generating stations	Small gas turbine power generating stations	Agartala GPS	Advance F Class Machines
FY 2019-20	17.58	36.21	42.85	26.34
FY 2020-21	18.20	37.48	44.35	27.27
FY 2021-22	18.84	38.80	45.91	28.23
FY 2022-23	19.50	40.16	47.52	29.22
FY 2023-24	20.19	41.57	49.19	30.24

(2) Generating Stations based on coal rejects:

(in Rs Lakh/MW)

Year	O&M Expenses
FY 2019-20	31.15
FY 2020-21	32.24
FY 2021-22	33.37
FY 2022-23	34.54
FY 2023-24	35.76

(3) The Water Charges, Security Expenses and Capital Spares for thermal generating stations shall be allowed separately after prudence check:

Provided that water charges shall be allowed based on water consumption depending upon type of plant and type of cooling water system, subject to prudence check. The details regarding the same shall be furnished along with the petition;

Provided further that the generating station shall submit the assessment of the security requirement and estimated expenses;

Provided also that the generating station shall submit the details of year-wise actual capital spares consumed at the time of truing up with appropriate justification for incurring the same and substantiating that the same is not funded through compensatory allowance as per Regulation 12.3 of Karnataka Electricity Regulatory

Commission (Terms and Conditions for Determination of Generation Tariff) Regulations, 2014 or Special Allowance or claimed as a part of additional capitalization or consumption of stores and spares and renovation and modernization.

- (4) The additional operation and maintenance expenses on account of implementation of revised emission standards shall be notified separately:

Provided that till the norms are notified, the Commission shall decide the additional O&M expenses on case to case basis.

**(2) Hydro Generating Station:**

- (a) Following operations and maintenance expense norms shall be applicable for hydro generating stations which have been operational for three or more years as on 1.4.2019:

Note: The impact in respect of revision of minimum wage, pay revision and GST, if any, will be considered at the time of determination of tariff.

- (b) In case of the hydro generating stations declared under commercial operation on or after 1.4.2019, operation and maintenance expenses of first year shall be fixed at 3.5% and 5.0% of the original project cost (excluding cost of rehabilitation & resettlement works, IDC and IEDC) for stations with installed capacity exceeding 200 MW and for stations with installed capacity less than 200 MW, respectively.
- (c) In case of hydro generating stations which have not completed a period of three years as on 1.4.2019, operation and maintenance expenses for 2019-20 shall be worked out by applying escalation rate of 4.77% on the applicable operation and maintenance expenses as on 31.3.2019. The operation and maintenance expenses for subsequent years of the tariff period shall be worked out by applying escalation rate of 4.77% per annum.
- (d) The Security Expenses and Capital Spares for hydro generating stations shall be allowed separately after prudence check:
- Provided further that the generating station shall submit the assessment of the security requirement and estimated expenses, the details of year-wise actual capital spares consumed at the time of truing up with appropriate justification.

## CHAPTER – 9

### COMPUTATION OF INPUT PRICE OF COAL AND LIGNITE FROM INTEGRATED MINE

**36) Input Price of coal and lignite for energy charges:**

- 1) Where the generating company has the arrangement for supply of coal or lignite from the integrated mine(s) allocated to it, for use in one or more of its generating stations as

end use, the energy charge component of tariff of the generating station shall be determined based on the input price of coal or lignite, as the case may be, from such integrated mines computed in accordance with the regulations to be notified separately by the Commission.

- 2) Till the regulation for computation of input price of coal is notified, the generating company shall continue to adopt the notified price of Coal India Limited commensurate with the grade of the coal from the integrated mine:

Provided that after notification of the regulation for input price of coal, the same shall be applicable from 1.4.2019 or the date of commercial operation of the integrated mine, whichever is later, and the difference between the input price of coal so decided and the input price of coal for quantity billed shall be adjusted in accordance with the regulations to be notified.

- 3) Till the regulations for computation of input price of lignite is notified, the input price of lignite shall continue to be determined as per the guidelines specified by Ministry of Coal, Government of India.

## CHAPTER-10

### Components of Energy Charges

#### 37) Energy Charge:

The energy charge in respect of the thermal generating Stations shall comprise of landed fuel cost of primary fuel, cost of secondary fuel oil consumption and landed cost of reagents on account of implementation of the revised emission standards.

#### 38) Landed Fuel Cost of Primary Fuel:

The landed fuel cost of primary fuel for any month shall consist of base price or input price of fuel corresponding to the grade and quality of fuel and shall be inclusive of statutory charges as applicable, washery charges, transportation cost by rail or road or any other means and loading, unloading and handling charges:

Provided that procurement of fuel at a price other than Government notified prices may be considered, if it is based on competitive bidding through transparent process;

Provided further that landed fuel cost of primary fuel shall be worked out based on the actual bill paid by the generating company including any adjustment on account of quantity and quality;

Provided also that in case of coal-fired or lignite based thermal generating station, the Gross Calorific Value shall be measured by third party sampling and the expenses towards the third party sampling facility shall be reimbursed by the beneficiaries.

**39) Transit and Handling Losses:**

For coal and lignite, the transit and handling losses shall be as per the following norms:

Thermal Generating Station	Transit and Handling Loss(%)
Pit head	0.20%
Non-Pit head	0.80%

Provided that in case of pit-head stations, if coal or lignite is procured from sources other than the pit-head mines which is transported to the station through rail, transit and handling losses applicable for non-pit head station shall apply;

Provided further that in case of imported coal, the transit and handling losses applicable for pit-head station shall apply.

**40) Gross Calorific Value of Primary Fuel**

- (1) The gross calorific value for computation of energy charges as per Regulation 42 of these regulations shall be done in accordance with 'GCV as received' basis.

The generating company shall provide to the beneficiaries of the generating station the details in respect of GCV and price of fuel i.e. domestic coal, imported coal, e-auction coal, lignite, natural gas, RLNG, liquid fuel etc. as per the Form 15 prescribed at Annexure (Part I) to these regulations:

Provided that the additional details of the weighted average GCV of the fuel on as received basis used for generation during the period, blending ratio of the imported coal with domestic coal, proportion of e-auction coal shall be provided, along with the bills of the respective month;

Provided further that copies of the bills and details of parameters of GCV and price of fuel such as domestic coal, imported coal, e-auction coal, lignite, natural gas, RLNG, liquid fuel, details of blending ratio of the imported coal with domestic coal, proportion of e-auction coal shall also be displayed on the website of the generating company.

**41) Landed Cost of Reagent**

Where specific reagents such as Limestone,

Sodium Bi-Carbonate, Urea or Anhydrous Ammonia are used during operation of emission control system for meeting revised emission standards, the landed cost of such reagents shall be determined based on normative consumption and purchase price of the reagent through competitive bidding, applicable statutory charges and transportation cost.

The normative consumption of specific reagent for the various technologies installed for meeting revised emission standards shall be notified separately.

## CHAPTER- 11

### Computation of Capacity Charge and Energy Charges

#### 42) Computation and Payment of Capacity Charge for Thermal Generating

##### Stations:

- (1) The fixed cost of a thermal generating station shall be computed on annual basis based on the norms specified under these regulations and recovered on monthly basis under capacity charge. The total capacity charge payable for a generating station shall be shared by its beneficiaries as per their respective percentage share or allocation in the capacity of the generating station. The capacity charge shall be recovered under two segments of the year, i.e. High Demand Season (period of three months) and Low Demand Season (period of remaining nine months), and within each season in two parts viz., Capacity Charge for Peak Hours of the month and Capacity Charge for Off- Peak Hours of the month as follows:

Capacity Charge for the Year (CCy) = Sum of Capacity Charge for three months of High Demand Season + Sum of Capacity Charge for nine months of Low Demand Season

- (2) The Capacity Charge payable to a thermal generating station for a calendar month shall be calculated in accordance with the following formulae:

Capacity Charge for the Month (CCm) = Capacity Charge for Peak Hours of the Month (CCp) + Capacity Charge for Off-Peak Hours of the Month (CCop)

Where,

High demand Season:

$$CC_{p1} = (0.20 \times AFC) \times \left(\frac{1}{12}\right) \times \left(\frac{PAFM_{p1}}{NAPAF}\right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left(\frac{1}{12}\right)$$

$$CC_{p2} = \{ (0.20 \times AFC) \times \left(\frac{1}{6}\right) \times \left(\frac{PAFM_{p2}}{NAPAF}\right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left(\frac{1}{6}\right) \} - CC_{p1}$$

$$CC_{p3} = \{ (0.20 \times AFC) \times \left(\frac{1}{4}\right) \times \left(\frac{PAFM_{p3}}{NAPAF}\right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left(\frac{1}{4}\right) \} - (CC_{p1} + CC_{p2})$$

$$CC_{op1} = \{ (0.80 \times AFC) \times \left(\frac{1}{12}\right) \times \left(\frac{PAFM_{op1}}{NAPAF}\right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left(\frac{1}{12}\right) \}$$

$$CC_{op2} = \{ (0.80 \times AFC) \times \left(\frac{1}{6}\right) \times \left(\frac{PAFM_{op2}}{NAPAF}\right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left(\frac{1}{6}\right) \} - CC_{op1}$$

$$CC_{op3} = \{ (0.80 \times AFC) \times \left(\frac{1}{4}\right) \times \left(\frac{PAFM_{op3}}{NAPAF}\right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left(\frac{1}{4}\right) \} - (CC_{op1} + CC_{op2})$$

**Low Demand Season:**

$$\begin{aligned}
CC_{p1} &= \left\{ (0.20 \times AFC) \times \left( \frac{1}{12} \right) \times \left( \frac{PAFM_{p1}}{NAPAF} \right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left( \frac{1}{12} \right) \right\} \\
CC_{p2} &= \left\{ (0.20 \times AFC) \times \left( \frac{1}{6} \right) \times \left( \frac{PAFM_{p2}}{NAPAF} \right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left( \frac{1}{6} \right) \right\} - CC_{p1} \\
CC_{p3} &= \left\{ (0.20 \times AFC) \times \left( \frac{1}{4} \right) \times \left( \frac{PAFM_{p3}}{NAPAF} \right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left( \frac{1}{4} \right) \right\} - (CC_{p1} + CC_{p2}) \\
CC_{p4} &= \left\{ (0.20 \times AFC) \times \left( \frac{1}{3} \right) \times \left( \frac{PAFM_{p4}}{NAPAF} \right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left( \frac{1}{3} \right) \right\} - (CC_{p1} + CC_{p2} + CC_{p3}) \\
CC_{p5} &= \left\{ (0.20 \times AFC) \times \left( \frac{1}{2} \right) \times \left( \frac{PAFM_{p5}}{NAPAF} \right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left( \frac{1}{2} \right) \right\} - (CC_{p1} + CC_{p2} + CC_{p3} + CC_{p4}) \\
CC_{p6} &= \left\{ (0.20 \times AFC) \times \left( \frac{1}{2} \right) \times \left( \frac{PAFM_{p6}}{NAPAF} \right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left( \frac{1}{2} \right) \right\} - (CC_{p1} + CC_{p2} + CC_{p3} + CC_{p4} + CC_{p5}) \\
CC_{p7} &= \left\{ (0.20 \times AFC) \times \left( \frac{7}{12} \right) \times \left( \frac{PAFM_{p7}}{NAPAF} \right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left( \frac{7}{12} \right) \right\} - (CC_{p1} + CC_{p2} + CC_{p3} + CC_{p4} + CC_{p5} + CC_{p6}) \\
CC_{p8} &= \left\{ (0.20 \times AFC) \times \left( \frac{2}{3} \right) \times \left( \frac{PAFM_{p8}}{NAPAF} \right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left( \frac{2}{3} \right) \right\} - (CC_{p1} + CC_{p2} + CC_{p3} + CC_{p4} + CC_{p5} + CC_{p6} + CC_{p7}) \\
CC_{p9} &= \left\{ (0.20 \times AFC) \times \left( \frac{3}{4} \right) \times \left( \frac{PAFM_{p9}}{NAPAF} \right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left( \frac{3}{4} \right) \right\} - (CC_{p1} + CC_{p2} + CC_{p3} + CC_{p4} + CC_{p5} + CC_{p6} + CC_{p7} + CC_{p8}) \\
CC_{op1} &= \left\{ (0.80 \times AFC) \times \left( \frac{1}{12} \right) \times \left( \frac{PAFM_{op1}}{NAPAF} \right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left( \frac{1}{12} \right) \right\} \\
CC_{op2} &= \left\{ (0.80 \times AFC) \times \left( \frac{1}{6} \right) \times \left( \frac{PAFM_{op2}}{NAPAF} \right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left( \frac{1}{6} \right) \right\} - CC_{op1} \\
CC_{op3} &= \left\{ (0.80 \times AFC) \times \left( \frac{1}{4} \right) \times \left( \frac{PAFM_{op3}}{NAPAF} \right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left( \frac{1}{4} \right) \right\} - (CC_{op1} + CC_{op2}) \\
CC_{op4} &= \left\{ (0.80 \times AFC) \times \left( \frac{1}{3} \right) \times \left( \frac{PAFM_{op4}}{NAPAF} \right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left( \frac{1}{3} \right) \right\} - (CC_{op1} + CC_{op2} + CC_{op3})
\end{aligned}$$

$$CC_{op5} = \left\{ (0.80 \times AFC) \times \left( \frac{5}{12} \right) \times \left( \frac{PAFM_{op5}}{NAPAF} \right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left( \frac{5}{12} \right) \right\} - (CC_{op1} + CC_{op2} + CC_{op3} + CC_{op4})$$

$$CC_{op6} = \left\{ (0.80 \times AFC) \times \left( \frac{1}{2} \right) \times \left( \frac{PAFM_{op6}}{NAPAF} \right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left( \frac{1}{2} \right) \right\} - (CC_{op1} + CC_{op2} + CC_{op3} + CC_{op4} + CC_{op5})$$

$$CC_{op7} = \left\{ (0.80 \times AFC) \times \left( \frac{7}{12} \right) \times \left( \frac{PAFM_{op7}}{NAPAF} \right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left( \frac{7}{12} \right) \right\} - (CC_{op1} + CC_{op2} + CC_{op3} + CC_{op4} + CC_{op5} + CC_{op6})$$

$$CC_{op8} = \left\{ (0.80 \times AFC) \times \left( \frac{2}{3} \right) \times \left( \frac{PAFM_{op8}}{NAPAF} \right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left( \frac{2}{3} \right) \right\} - (CC_{op1} + CC_{op2} + CC_{op3} + CC_{op4} + CC_{op5} + CC_{op6} + CC_{op7})$$

$$CC_{op9} = \left\{ (0.80 \times AFC) \times \left( \frac{3}{4} \right) \times \left( \frac{PAFM_{op9}}{NAPAF} \right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left( \frac{3}{4} \right) \right\} - (CC_{op1} + CC_{op2} + CC_{op3} + CC_{op4} + CC_{op5} + CC_{op6} + CC_{op7} + CC_{op8})$$

Provided that in case of generating station or unit thereof under shutdown due to Renovation and Modernisation, the generating company shall be allowed to recover O&M expenses and interest on loan only.

Where,

CC<sub>m</sub>= Capacity Charge for the Month;

CC<sub>p</sub>= Capacity Charge for the Peak Hours of the Month;

CC<sub>op</sub>= Capacity Charge for the Off-Peak Hours of the Month;

CC<sub>pn</sub>= Capacity Charge for the Peak Hours of nth Month in a specific Season;

CC<sub>opn</sub>= Capacity Charge for the Off-Peak of nth Month in a specific Season;

AFC = Annual Fixed Cost;

PAFM<sub>pn</sub> = Plant Availability Factor achieved during Peak Hours upto the end of nth Month in a Season;

PAFM<sub>opn</sub> = Plant Availability Factor achieved during Off-Peak Hours upto the end of nth Month in a Season;

NAPAF= Normative Annual Plant Availability Factor.

(3) Normative Plant Availability Factor for "Peak" and "Off-Peak" Hours in a month shall be equivalent to the NAPAF specified in Clause (A) of Regulation 48 of these regulations. The number of hours of "Peak" and "Off-Peak" periods during a day shall be four and twenty



respectively. The hours of Peak and Off-Peak periods during a day shall be declared by the SLDC at least a week in advance. The High Demand Season (period of three months, consecutive or otherwise) and Low Demand Season (period of remaining nine months, consecutive or otherwise) in a State shall be declared by the concerned SLDC, at least six months in advance:

Provided that SLDC, after duly considering the comments of the concerned stakeholders, shall declare Peak Hours and High Demand Season in such a way as to coincide with the majority of the Peak Hours and High Demand Season of the State to the maximum extent possible:

Provided further that in respect of a generating station having beneficiaries across different regions, the High Demand Season and the Peak Hours shall correspond to the High Demand Season and Peak Hours of the region in which majority of its beneficiaries, in terms of percentage of allocation of share, are located.

- (4) Any under-recovery or over-recovery of Capacity Charge as a result of underachievement or over-achievement, vis-à-vis the NAPAF in Peak and Off-Peak Hours of a Season (High Demand Season or Low Demand Season, as the case may be) shall not be adjusted with under-achievement or over-achievement, vis-à-vis the NAPAF in Peak and Off-Peak Hours of the other Season:

Provided that within a Season, the shortfall in recovery of Capacity Charge for cumulative Off-Peak Hours derived based on NAPAF, shall be allowed to be off-set by over-achievement of PAF, if any, and consequent notional over-recovery of Capacity Charge for cumulative Peak Hours in that Season:

Provided further that within a Season, the shortfall in recovery of Capacity Charge for cumulative Peak Hours derived based on NAPAF, shall not be allowed to be off-set by over-achievement of PAF, if any, and consequent notional over-recovery of Capacity Charge for cumulative Off-Peak Hours in that Season.

- (5) The Plant Availability Factor achieved for a Month (PAFM) shall be computed in accordance with the following formula:

$$PAFM = 10000 \times \sum_{i=1}^N \frac{DC_i}{[N \times IC \times (100 - Aux)]} \%$$

Where,

AUX = Normative auxiliary energy consumption in percentage.



DCi = Average declared capacity (in ex-bus MW), for the ith day of the period i.e. the month or the year as the case may be, as certified by the concerned load dispatch centre after the day is over.

IC = Installed Capacity (in MW) of the generating station

N = Number of days during the period

**Note:** DCi and IC shall exclude the capacity of generating units not declared under commercial operation. In case of a change in IC during the concerned period, its average value shall be taken.

(6) In addition to the capacity charge, an incentive shall be payable to a generating station or unit thereof @ 65 paise/ kWh for ex-bus scheduled energy during Peak Hours and @ 50 paise/ kWh for ex-bus scheduled energy during Off-Peak Hours corresponding to scheduled generation in excess of ex-bus energy corresponding to Normative Annual Plant Load Factor (NAPLF) achieved on a cumulative basis within each Season (High Demand Season or Low Demand Season, as the case may be), as specified in Clause (B) of Regulation 48 of these regulations.

(7) The provisions under Clauses (1) to (6) of this Regulation shall come into force with effect from 1.4.2020. Till that date, the capacity charge for a thermal generating station determined under these regulations shall be recovered in accordance with the provisions contained in the Regulation 21 of the Karnataka Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulations, 2014, subject to the condition that the NAPAF and NAPLF shall be taken as specified under these regulations.

#### 43) Computation and Payment of Energy Charge for Thermal Generating Stations

(1) The energy charge shall cover the primary and secondary fuel cost and limestone consumption cost (where applicable), and shall be payable by every beneficiary for the total energy scheduled to be supplied to such beneficiary during the calendar month on ex-power plant basis, at the energy charge rate of the month (with fuel and limestone price adjustment). Total Energy charge payable to the generating company for a month shall be:

Energy Charges = (Energy charge rate in Rs/kWh) x {Scheduled energy (exbus) for the month in kWh}

(2) Energy charge rate (ECR) in Rupees per kWh on ex-power plant basis shall be determined to three decimal places in accordance with the following formulae:

(a) **For coal based and lignite fired stations:**

$$ECR = \{(SHR - SFC \times CVSF) \times LPPF / (CVPF + SFC \times LPSFi + LC \times LPL) \times 100 / (100 - AUX)\}$$

## (b) For gas and liquid fuel based stations:

$$ECR = SHR \times LPPF \times 100 / \{(CVPF) \times (100 - AUX)\}$$

Where,

AUX = Normative auxiliary energy consumption in percentage.

CVPF = (a) Weighted Average Gross calorific value of coal as received, in kCal per kg for coal based stations less 85 Kcal/Kg on account of variation during storage at generating station;

(b) Weighted Average Gross calorific value of primary fuel as received, in kCal per kg, per litre or per standard cubic meter, as applicable for lignite, gas and liquid fuel based stations;

(c) In case of blending of fuel from different sources, the weighted average Gross calorific value of primary fuel shall be arrived in proportion to blending ratio: CVSF = Calorific value of secondary fuel, in kCal per ml;

ECR = Energy charge rate, in Rupees per kWh sent out;

SHR = Gross station heat rate, in kCal per kWh;

LC = Normative limestone consumption in kg per kWh;

LPL = Weighted average landed cost of limestone in Rupees per kg;

LPPF = Weighted average landed fuel cost of primary fuel, in Rupees per kg, per litre or per standard cubic metre, as applicable, during the month. (In case of blending of fuel from different sources, the weighted average landed fuel cost of primary fuel shall be arrived in proportion to blending ratio);

SFC = Normative Specific fuel oil consumption, in ml per kWh;

LPSFi = Weighted Average Landed Fuel Cost of Secondary Fuel in Rs./ml during the month:

Provided that energy charge rate for a gas or liquid fuel based station shall be adjusted for open cycle operation based on certification of SLDC during the month.

(3) In case of part or full use of alternative source of fuel supply by coal based thermal generating stations other than as agreed by the generating company and beneficiaries in their power purchase agreement for supply of contracted power on account of shortage of fuel or optimization of economical operation through blending, the use of alternative source of fuel supply shall be permitted to generating station:

Provided that in such case, prior permission from beneficiaries shall not be a precondition, unless otherwise agreed specifically in the power purchase agreement:

Provided further that the weighted average price of alternative source of fuel shall not exceed 30% of base price of fuel computed as per clause (5) of this Regulation:

Provided also that where the energy charge rate based on weighted average price of fuel upon use of alternative source of fuel supply exceeds 30% of base energy charge rate as approved by the Commission for that year or exceeds 20% of energy charge

rate for the previous month, whichever is lower shall be considered and in that event, prior consultation with beneficiary shall be made at least three days in advance.

- (4) Where biomass fuel is used for blending with coal, the landed cost of biomass fuel shall be worked out based on the delivered cost of biomass at the unloading point of the generating station, inclusive of taxes and duties as applicable. The energy charge rate of the blended fuel shall be worked out considering consumption of biomass based on blending ratio as specified by Authority or actual consumption of biomass, whichever is lower.
- (5) The Commission through specific tariff orders to be issued for each generating station shall approve the energy charge rate at the start of the tariff period. The energy charge rate so approved shall be the base energy charge rate for the first year of the tariff period. The base energy charge rate for subsequent years shall be the energy charge computed after escalating the base energy charge rate by escalation rates for payment purposes as notified by the CERC from time to time under competitive bidding guidelines.

#### 44) **Computation and Payment of Capacity Charge and Energy Charge for Hydro Generating Stations:**

- (1) The fixed cost of a hydro generating station shall be computed on annual basis, based on norms specified under these regulations, and shall be recovered on monthly basis under capacity charge (inclusive of incentive) and energy charge, which shall be payable by the beneficiaries in proportion to their respective allocation in the saleable capacity of the generating station, i.e., in the capacity excluding the free Power to the State.

Provided that during the period between the date of commercial operation of the first unit of the generating station and the date of commercial operation of the generating station, the annual fixed cost shall provisionally be worked out based on the latest estimate of the completion cost for the generating station, for the purpose of determining the capacity charge and energy charge payment during such period.

- (2) The capacity charge (inclusive of incentive) payable to a hydro generating station for a calendar month shall be:

$$AFC \times 0.5 \times NDM / NDY \times (PAFM / NAPAF) \text{ (in Rupees) Where,}$$

AFC = Annual fixed cost specified for the year, in Rupees

NAPAF = Normative plant availability factor in percentage;

NDM = Number of days in the month

NDY = Number of days in the year

PAFM = Plant availability factor achieved during the month, in percentage

- (3) The PAFM shall be computed in accordance with the following formula:

N

$$PAFM = 10000 \times \sum_{i=1}^N DCi / \{N \times IC \times (100 - AUX)\} \%$$

i = 1

AUX = Normative auxiliary energy consumption in percentage

DCi = Declared capacity (in ex-bus MW) for the ith day of the month which the station can deliver for at least three (3) hours, as certified by the State load dispatch centre after the day is over.

IC = Installed capacity (in MW) of the complete generating station

N = Number of days in the month

- (4) The energy charge shall be payable by every beneficiary for the total energy scheduled to be supplied to the beneficiary, excluding free energy, if any, during the calendar month, on ex-bus basis, at the computed energy charge rate. Total energy charge payable to the generating company for a month shall be:

$$\text{Energy Charges} = (\text{Energy charge rate in Rs. / kWh}) \times \{\text{Scheduled energy (ex-bus) for the month in kWh}\} \times (100 - \text{FES}) / 100$$

- (5) Energy charge rate (ECR) in Rupees per kWh on ex-power plant basis, for a hydro generating station, shall be determined up to three decimal places based on the following formula, subject to the provisions of clause (7) of this Regulation:

$$ECR = AFC \times 0.5 \times 10 / \{DE \times (100 - AUX) \times (100 - FES)\}$$

Where,

DE = Annual design energy specified for the hydro generating station, in MWh, subject to the provision in clause (6) below.

FES = Free energy for State, in per cent, as mentioned in Note 3 under Regulation 51 of these regulations.

- (6) In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the treatment shall be as per clause (7) of this Regulation, on an application filed by the generating company.
- (7) Shortfall in energy charges in comparison to fifty percent of the annual fixed cost shall be allowed to be recovered in six equal monthly instalments:
- Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station.
- (8) Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period 2014-19 which was beyond the control of the generating station and which could not be

recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation.

- (9) In case the energy charge rate (ECR) for a hydro generating station, computed as per clause (5) of this Regulation exceeds one hundred and twenty paise per kWh, and the actual saleable energy in a year exceeds  $\{DE \times (100 - AUX) \times (100 - FES) / 10000\}$  MWh, the energy charge for the energy in excess of the above shall be billed at one hundred and twenty paise per kWh only.

#### 45) Computation and Payment of Capacity Charge and Energy Charge for Pumped Storage Hydro Generating Stations

- (1) The fixed cost of a pumped storage hydro generating station shall be computed on annual basis, based on norms specified under these regulations, and recovered on monthly basis as capacity charge. The capacity charge shall be payable by the beneficiaries in proportion to their respective allocation in the saleable capacity of the generating station, i.e., the capacity excluding the free power to the State:

Provided that during the period between the date of commercial operation of the first unit of the generating station and the date of commercial operation of the generating station, the annual fixed cost shall be worked out based on the latest estimate of the completion cost for the generating station, for the purpose of determining the capacity charge payment during such period.

- (2) The capacity charge payable to a pumped storage hydro generating station for a calendar month shall be:

$(AFC \times NDM / NDY)$  (In Rupees), if actual Generation during the month is  $\geq 75\%$  of the Pumping Energy consumed by the station during the month and

$\{(AFC \times NDM / NDY) \times (\text{Actual Generation during the month during peak hours} / 75\% \text{ of the Pumping Energy consumed by the station during the month})\}$  (in Rupees)), if actual Generation during the month is  $< 75\%$  of the Pumping Energy consumed by the station during the month.

Where,

AFC = Annual fixed cost specified for the year, in Rupees

NDM = Number of days in the month

NDY = Number of days in the year

Provided that there would be adjustment at the end of the year based on actual generation and actual pumping energy consumed by the station during the year.

- (3) The energy charge shall be payable by every beneficiary for the total energy scheduled to be supplied to the beneficiary in excess of the design energy plus 75% of the energy utilized in pumping the water from the lower elevation reservoir to the higher elevation reservoir, at a flat rate equal to the average energy charge rate of 20 paise

per kWh, excluding free energy, if any, during the calendar month, on ex power plant basis.

(4) Energy charge payable to the generating company for a month shall be:

$$= 0.20 \times \{ \text{Scheduled energy (ex-bus) for the month in kWh} - (\text{Design Energy for the month (DEm)} + 75\% \text{ of the energy utilized in pumping the water from the lower elevation reservoir to the higher elevation reservoir of the month}) \} \times (100 - \text{FES}) / 100.$$

Where,

DEm = Design energy for the month specified for the hydro generating station, in MWh

FES = Free energy for State, in per cent, as mentioned in Note 3 under Regulation 52 of these regulations, if any.

Provided that in case the Scheduled energy in a month is less than the Design Energy for the month plus 75% of the energy utilized in pumping the water from the lower elevation reservoir to the higher elevation reservoir of the month, then the energy charges payable by the beneficiaries shall be zero.

(5) The generating company shall maintain the record of daily inflows of natural water into the upper elevation reservoir and the reservoir levels of upper elevation reservoir and lower elevation reservoir on hourly basis. The generator shall be required to maximize the peak hour supplies with the available water including the natural flow of water. In case it is established that generator is deliberately or otherwise without any valid reason, is not pumping water from lower elevation reservoir to the higher elevation during off-peak period or not generating power to its potential or wasting natural flow of water, the capacity charges of the day shall not be payable by the beneficiary. For this purpose, outages of the unit(s)/station including planned outages and the forced outages up to 15% in a year shall be construed as the valid reason for not pumping water from lower elevation reservoir to the higher elevation during off-peak period or not generating power using energy of pumped water or natural flow of water:

Provided that the total capacity charges recovered during the year shall be adjusted on pro-rata basis in the following manner in the event of total machine outages in a year exceeds 15%:

$$(\text{ACC})_{\text{adj}} = (\text{ACC}) \text{ R} \times (100 - \text{ATO}) / 85$$

Where,

(ACC)<sub>adj</sub> = Adjusted Annual Capacity Charges

(ACC) R = Annual Capacity Charges recovered

ATO = Total Outages in percentage for the year including forced and planned outages

Provided further that the generating station shall be required to declare its machine availability daily on day ahead basis for all the time blocks of the day in line with the scheduling procedure of Grid Code.

- (6) The State Load Despatch Centre shall finalise the schedules for the hydro generating stations, in consultation with the beneficiaries, for optimal utilization of all the energy declared to be available, which shall be scheduled for all beneficiaries in proportion to their respective allocations in the generating station.

#### 46) Deviation Charges

- (1) Variations between actual net injection and scheduled net injection for the generating stations, and variations between actual net drawal and scheduled net drawal for the beneficiaries shall be treated as their respective deviations and charges for such deviations shall be governed by the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and Related matters) Regulations, 2014, as amended from time to time or any subsequent re-enactment thereof, till such time a separate mechanism evolved.
- (2) Actual net deviation of every Generating Station and Beneficiary shall be metered on its periphery through special energy meters (SEMs) installed by the State Transmission Utility (STU), and computed in MWh for each 15-minute time block by the State Load Despatch Centre (SLDC).

## CHAPTER - 12

### Norms of Operation

#### 47) Recovery of Tariff and Incentive

- (1) Recovery of capacity charge, energy charge, and incentive by the generating company shall be based on the achievement of the operational norms specified in the Regulation 48 to Regulation 49 of these regulations
- (2) The Commission may on its own revise the norms of Station Heat Rate specified in Regulation 47 (C) of these regulations in respect of any of the generating stations for which relaxed norms have been specified.

#### 48) Norms of operation for thermal generating station

The norms of operation as given hereunder shall apply to thermal generating stations:

##### (A) Normative Annual Plant Availability Factor (NAPAF)

- (a) For all thermal generating stations, except those covered under clauses (b) 85%;
- (b) For Lignite fired Generating Stations using Circulatory Fluidized Bed Combustion (CFBC) Technology and Generating stations based on coal rejects:
1. First Three years from the date of commercial operation – 75%
  2. For next year after completion of three years of the date of commercial operation – 80%

**(B) Normative Annual Plant Load Factor (NAPLF) for Incentive:**

For all thermal generating stations 85%;

**(C) Gross Station Heat Rate:****(a) Thermal Generating Stations achieving COD before 1.4.2009**

- (i) For Coal-based Thermal Generating Stations, other than those covered under clause (ii) below:

200/210/250 MW Sets	500 MW Sets (Sub-critical)
2,430kCal/kWh	2,390kCal/kWh

**Note-1:-** In respect of 500 MW and above units where the boiler feed pumps are electrically operated, the gross station heat rate shall be 40 kCal/kWh lower than the gross station heat rate specified above;

**Note-2:-** For the generating stations having combination of 200/210/250 MW sets and 500 MW and above sets, the normative gross station heat rate shall be the weighted average gross station heat rate of the combinations

**Note 3:-** The normative gross station heat rate above is exclusive of the compensation specified in the Grid Code. The generating company shall, based on unit loading factor, consider the compensation in addition to the normative gross heat rate above.

**Note-4:-** The gross station heat rate for the unit capacity of less than 200 MW sets, shall be dealt on case to case basis.

- ii. Following Thermal generating stations of Karnataka Power Corporation Limited:

Name of the Station	Proposed heat rate for 2019-24
210 MW each of RTPS Units 1 to 7	2430 kcal/kwh or actuals
250 MW RTPS Unit 8	2273 kcal/kwh or actuals
500 MW, BTPS Unit-1	2390 kcal/kwh or actuals
500 MW, BTPS Unit-2	2267 kcal/kwh or actuals
700 MW BTPS Unit-3	2176.65 kcal/kwh or actuals
1600 MW YTPS 1 & 2	2151 kcal/kwh or actuals

- iii. For Lignite-fired Thermal Generating Stations: For lignite-fired thermal generating stations, the gross station heat rates specified under sub-clause (i) for coal-based thermal generating stations shall be applied with correction, using multiplying factors as given below:

- (a) For lignite having 50% moisture: 1.10  
(b) For lignite having 40% moisture: 1.07



(c) For lignite having 30% moisture: 1.04

For other values of moisture content, multiplying factor shall be pro-rated for moisture content between 30-40% and 40-50% depending upon the rated values of multiplying factor for the respective range given under sub-clauses (a) to (c) above.

**(b) Thermal Generating Stations achieving COD on or after 1.4.2009:**

(i) For Coal-based and lignite-fired Thermal Generating Stations:

1.05 X Design Heat Rate (kCal/kWh)

Where the Design Heat Rate of a generating unit means the unit heat rate guaranteed by the supplier at conditions of 100% MCR, zero percent make up, design coal and design cooling water temperature/back pressure.

Provided that the design heat rate shall not exceed the following maximum design unit heat rates depending upon the pressure and temperature ratings of the units:

Pressure Rating (Kg/cm <sup>2</sup> )	150	170	170
SHT/RHT (OC)	535/535	537/537	537/565
Type of BFP	Electrical Driven	Turbine Driven	Turbine Driven
Max Turbine Heat Rate (kCal/kWh)	1955	1950	1935
Min. Boiler Efficiency			
Sub-Bituminous Indian Coal	0.86	0.86	0.86
Bituminous Imported Coal	0.89	0.89	0.89
Max. Design Heat Rate (kCal/kWh)			
Sub-Bituminous Indian Coal	2273	2267	2250
Bituminous Imported Coal	2197	2191	2174

Pressure Rating (Kg/cm <sup>2</sup> )	247	247	270	270
SHT/RHT (OC)	535/565	565/593	593/593	600/600
Type of BFP	Turbine Driven	Turbine Driven	Turbine Driven	Turbine Driven
Max Turbine Heat Rate (kCal/kWh)	1900	1850	1810	1800
Min. Boiler Efficiency				
Sub-Bituminous Indian Coal	0.86	0.86	0.865	0.865
Bituminous Imported Coal	0.89	0.89	0.895	0.895
Max. Design Heat Rate (kCal/kWh)				
Sub-Bituminous Indian Coal	2222	2151	2105	2081
Bituminous Imported Coal	2135	2078	2034	2022

Provided further that in case pressure and temperature parameters of a unit are different from above ratings, the maximum design heat rate of the unit of the nearest class shall be taken:

Provided also that where heat rate of the unit has not been guaranteed but turbine cycle heat rate and boiler efficiency are guaranteed separately by the same supplier or different suppliers, the design heat rate of the unit shall be arrived at by using guaranteed turbine cycle heat rate and boiler efficiency:

Provided also that where the boiler efficiency is lower than 86% for Subbituminous Indian coal and 89% for bituminous imported coal, the same shall be considered as 86% and 89% for Sub-Bituminous Indian coal and bituminous imported coal respectively, for computation of station heat rate:

Provided also that maximum turbine cycle heat rate shall be adjusted for type of dry cooling system:

Provided also that in case of coal based generating station if one or more generating units were declared under commercial operation prior to 1.4.2019, the heat rate norms for those generating units as well as generating units declared under commercial operation on or after 1.4.2019 shall be lowest of the heat rate norms considered by the Commission during tariff period 2014-19 or those arrived at by above methodology or the norms as per the sub-clause (C)(a)(i) of this Regulation:

Provided also that in case of lignite-fired generating stations (including stations based on CFBC technology), maximum design heat rates shall be increased using factor for moisture content given in sub-clause (C)(a)(iv) of this Regulation:

Provided also that for Generating stations based on coal rejects, the Commission shall approve the Station Heat Rate on case to case basis.

Note: In respect of generating units where the boiler feed pumps are electrically operated, the maximum design heat rate of the unit shall be 40 kCal/kWh lower than the maximum design heat rate of the unit specified above with turbine driven Boiler Feed Pump.

**(c) For Gas-based/ Liquid-based Thermal Generating Unit(s)/ Block(s) having COD on or after 1.4.2009:**

For Natural Gas and RLNG = 1.050 X Design Heat Rate of the unit/block (kCal/kWh)

For Liquid fuel = 1.071 X Design Heat Rate of the unit/block for Liquid Fuel (kCal/kWh)

Where the Design Heat Rate of a unit shall mean the guaranteed heat rate for a unit at 100% MCR and at site ambient conditions; and the Design Heat Rate of a block shall mean the guaranteed heat rate for a block at 100% MCR, site ambient conditions, zero percent make up, design cooling water temperature/back pressure.

**(D) Secondary Fuel Oil Consumption:**

(a) For Coal-based generating stations: 0.50 ml/kWh

(b) For Generating Stations based on Coal Rejects: 2.0 ml/kWh

**(E) Auxiliary Energy Consumption:**

(a) For Coal-based generating stations except at (b) below:

S. No.	Generating Station	with Natural Draft cooling tower or without cooling tower
(i)	200 MW series	8.50%
(ii)	300 MW and above	
	Steam driven boiler feed pumps	5.75%
	Electrically driven boiler feed pumps	8.00%

Provided that for thermal generating stations with induced draft cooling towers and where tube type coal mill is used, the norms shall be further increased by 0.5% and 0.8% respectively:

Provided further that Additional Auxiliary Energy Consumption as follows shall be allowed for plants with Dry Cooling Systems:

Type of Dry Cooling System	(% of gross generation)
Direct cooling air cooled condensers with mechanical draft fans	1.0%
Indirect cooling system employing jet condensers with pressure recovery turbine and natural draft tower	0.5%

Note: The auxiliary energy consumption for the unit capacity of less than 200 MW sets shall be dealt on case to case basis.

(b) For Gas Turbine /Combined Cycle generating stations:

- (i) Combined Cycle: 2.75%
- (ii) Open Cycle: 1.00%

Provided that where the gas based generating station is using electric motor driven Gas Booster Compressor, the Auxiliary Energy Consumption in case of Combine Cycle mode shall be 3.30% (including impact of air-cooled condensers for Steam Turbine Generators):

Provided further that an additional Auxiliary Energy Consumption of 0.35% shall be allowed for Combine Cycle Generating Stations having direct cooling air cooled condensers with mechanical draft fans.

(c) For Lignite-fired thermal generating stations:

- (i) For all generating stations with 200 MW sets and above:

The auxiliary energy consumption norms shall be 0.5 percentage point more than the auxiliary energy consumption norms of coal-based generating stations at (E) (a) above.

Provided that for the lignite fired stations using CFBC technology, the auxiliary energy consumption norms shall be 1.5 percentage point more than the auxiliary energy consumption norms of coal-based generating stations at (E) (a) above.

- (ii) For Generating Stations based on coal rejects: 10%

#### 49) Norms of Operation for Hydro Generating Stations

- (A) (1) Normative Annual Plant Availability Factor (NAPAF): (1) The following normative annual plant availability factor (NAPAF) shall apply to hydro generating station:
- (a) Storage and Pondage type plants with head variation between Full Reservoir Level (FRL) and Minimum Draw Down Level (MDDL) of up to 8%, and where plant availability is not affected by silt: 90%;
  - (b) In case of storage and pondage type plants with head variation between full reservoir level and minimum draw down level is more than 8% and when plant availability is not affected by silt, the month wise peaking capability as provided by the project authorities in the DPR (approved by CEA or the State Government) shall form basis of fixation of NAPAF;
  - (c) Pondage type plants where plant availability is significantly affected by silt: 85%.
  - (d) Run-of-river generating stations: NAPAF to be determined plant-wise, based on 10-day design energy data, moderated by past experience where available/relevant.
- (2) A further allowance may be made by the Commission in NAPAF determination under special circumstances, e.g. abnormal silt problem or other operating conditions, and known plant limitations
- (B) In case of pumped storage hydro generating stations, the quantum of electricity required for pumping water from down-stream reservoir to up-stream reservoir shall be arranged by the beneficiaries duly taking into account the transmission and distribution losses up to the bus bar of the generating station. In return, beneficiaries shall be entitled to equivalent energy of 75% of the energy utilized in pumping the water from the lower elevation reservoir to the higher elevation reservoir from the generating station during peak hours and the generating station shall be under obligation to supply such quantum of electricity during peak hours:

Provided that in the event of the beneficiaries failing to supply the desired level of energy during off-peak hours, there will be pro-rata reduction in their energy entitlement from the station during peak hours:

Provided further that the beneficiaries may assign or surrender their share of capacity in the generating station, in part or in full, or the capacity may be reallocated by the State Government, and in that event, the owner or assignee of the capacity share shall be responsible for arranging the equivalent energy to the generating station in off-peak hours, and be entitled to corresponding energy during peak hours in the same way as the original beneficiary was entitled.

C) Auxiliary Energy Consumption (AEC):

Type of Station	AEC	
	Installed Capacity above 200 MW	Installed Capacity up to 200 MW
Surface		
Rotating Excitation	0.7%	0.7%
Static	1.0%	1.2%
Underground		
Rotating Excitation	0.9%	0.9%
Static	1.2%	1.3%

## CHAPTER-13

### Scheduling Accounting Billing

#### 50) Scheduling:

The methodology for scheduling and dispatch for the generating station shall be as specified in the Grid Code.

#### 51) Metering and accounting

The provisions of the Grid Code shall be applicable.

#### 52) Billing and Payment of charges

- (1) Bills shall be raised for capacity charge and energy charge by the generating company on monthly basis in accordance with these regulations, and payments shall be made by the beneficiaries to the generating company.

Provided that the physical copy of the Bill in Original at the office of the Authorised Person of the beneficiary or the scanned copy of Original Bill through official email ID of the Authorised Signatory of the Generating Company shall be recognized as valid mode of presentation of Bill:

Provided further that Authorized Signatory or Signatories (official designation only) shall be notified in advance by the Managing Director or Chief Executive Officer of the Company and any change in the list of Authorised Signatory for the purpose, shall be communicated in the same manner.

- (2) Payment of the capacity charge for a thermal generating station shall be shared by the beneficiaries of the generating station as per their percentage shares for the month (inclusive of any allocation out of the unallocated capacity) in the installed capacity of the generating station. Payment of capacity charge and energy charge for a hydro generating station shall be shared by the beneficiaries of the generating station in proportion to their shares (inclusive of any allocation out of the unallocated capacity) in the saleable capacity (to be determined after deducting the capacity corresponding to free energy allocated by State as per Note 3 herein).

Note-1:-

Shares or allocations of each beneficiary in the total capacity of State generating stations shall be as determined by the State Government, inclusive of any allocation made out of the unallocated capacity. The shares shall be applied in percentages of installed capacity and shall normally remain constant during a month. Based on the decision of the State Government, the changes in allocation shall be communicated by the SLDC in advance, at least three days prior to beginning of a calendar month, except in case of an emergency calling for an urgent change in allocations out of unallocated capacity. The total capacity share of a beneficiary would be sum of its capacity share plus allocation out of the unallocated portion. In the absence of any specific allocation of unallocated power by the State Government, the unallocated power shall be added to the allocated shares in the same proportion as the allocated shares.

Note-3:- Free Energy For State, in percent and shall be taken as 13% or actual whichever is less.

### 53) Recovery of Statutory Charges

The generating company shall recover the statutory charges imposed by the State and Central Government such as electricity duty, water cess by considering normative parameters specified in these regulations. In case of the electricity duty is applied on the auxiliary energy consumption, such amount of electricity duty shall apply on normative auxiliary energy consumption of the generating station (excluding colony consumption) and apportioned to each of the beneficiaries in proportion to their schedule dispatch during the month.

**54) Rebate**

- (1) For payment of bills of the generating company through letter of credit on presentation or through National Electronic Fund Transfer (NEFT) or Real Time Gross Settlement (RTGS) payment mode within a period of 5 days of presentation of bills by the generating company or the transmission licensee, a rebate of 1.50% shall be allowed.

Explanation: In case of computation of '5 days', the number of days shall be counted consecutively without considering any holiday. However, in case the last day or 5<sup>th</sup> day is official holiday, the 5th day for the purpose of Rebate shall be construed as the immediate succeeding working day (as per the official State Government's calendar, where the Office of the Authorised Signatory or Representative of the Beneficiary, for the purpose of receipt or acknowledgement of Bill is situated).

- (2) Where payments are made on any day after 5 days and within a period of 30 days of presentation of bills by the generating company a rebate of 1% shall be allowed.

**55) Late payment surcharge:**

In case the payment of any bill for charges payable under these regulations is delayed by a beneficiary, beyond a period of 45 days from the date of presentation of bills, a late payment surcharge at the rate of 1.00% per month shall be levied by the generating Company.

**CHAPTER – 14**

**SHARING OF BENEFITS**

**56) Sharing of gains due to variation in norms:**

- (1) The generating company shall workout gains based on the actual performance of applicable Controllable parameters as under:
- i) Station Heat Rate;
  - ii) Secondary Fuel Oil Consumption; and
  - iii) Auxiliary Energy Consumption.
- (2) The financial gains by the generating company, on account of controllable parameters shall be shared between generating company and the beneficiaries on annual basis. The financial gains computed as per the following formulae in case of generating station other than hydro generating stations on account of operational parameters as shown in Clause (1) of this Regulation shall be shared in the ratio of 50:50 between the generating stations and beneficiaries.

$$\text{Net Gain} = (\text{ECRN} - \text{ECRA}) \times \text{Scheduled Generation}$$

Where,

ECRN = Normative Energy Charge Rate computed on the basis of norms specified for Station Heat Rate,

Auxiliary Energy Consumption and Secondary Fuel Oil consumption.

ECRA = Actual Energy Charge Rate computed on the basis of actual Station Heat Rate, Auxiliary Energy Consumption and Secondary Fuel Oil Consumption for the month.

Provided that in case of hydro generating stations, the net gain on account of Actual Auxiliary Energy Consumption being less than the Normative Auxiliary Energy Consumption, shall be computed as per following formulae provided the saleable scheduled generation is more than the saleable design energy and shall be shared in the ratio of 50:50 between generating station and beneficiaries.:

- (i) When saleable scheduled generation is more than saleable design energy on the basis of normative auxiliary energy consumption and less than or equal to saleable design energy on the basis of actual auxiliary energy consumption: Net gain (Million Rupees) = [(Saleable Scheduled generation in MUs) – (Saleable Design energy on the basis of normative auxiliary energy consumption in MUs)] x [1.20 or ECR, whichever is lower]
- (ii) When saleable scheduled generation is more than saleable design energy on the basis of actual auxiliary energy consumption:  

$$\text{Net gain (Million Rupees)} = \{ \text{Saleable Scheduled generation in MUs} - [(\text{Saleable Scheduled Generation in MUs} \times (100 - \text{normative AEC in \%}) / (100 - \text{actual AEC in \%}))] \} \times [1.20 \text{ or ECR, whichever is lower}]$$

#### 57) **Sharing of saving in interest due to re-financing or restructuring of loan:**

- (1) If re-financing or restructuring of loan by the generating company, results in net savings on interest after accounting for cost associated with such refinancing or restructuring, the same shall be shared between the beneficiaries and the generating company, in the ratio of 50:50.
- (2) In case of dispute, any of the parties may make an application in accordance with the KERC (General & Conduct of Proceedings) Regulations, 2000 for settlement of the dispute:

Provided that the beneficiaries shall not withhold any payment on account of the interest claimed by the generating company during the pendency of any dispute arising out of re-financing of loan.

#### 58) **Sharing of Non-Tariff Income:**

The non-tariff net income in case of generating station from rent of land or buildings, sale of scrap and advertisements shall be shared between the beneficiaries and the generating company, in the ratio 50:50.



**59) Sharing of Clean Development Mechanism Benefits:**

The proceeds of carbon credit from approved emission reduction projects under Clean Development Mechanism shall be shared in the following manner: -

- (a) 100% of the gross proceeds on account of CDM to be retained by the project developer in the first year after the date of commercial operation of the generating station;
- (b) In the second year, the share of the beneficiaries shall be 10% which shall be progressively increased by 10% every year till it reaches 50%, where after the proceeds shall be shared in equal proportion, by the generating company and the beneficiaries.

**CHAPTER-15**

**Miscellaneous Provisions**

**60) Operational Norms to be ceiling norms:**

Operational norms specified in these regulations are the ceiling norms and shall not preclude the generating company and the beneficiaries' customers from agreeing to the improved norms and in case the improved norms are agreed to, such improved norms shall be applicable for determination of tariff.

**61) Deviation from ceiling tariff:**

- (1) The tariff determined in these regulations shall be a ceiling tariff. The generating company and the beneficiaries may mutually agree to charge a lower tariff.
- (2) The generating company, may opt to charge a lower tariff for a period not exceeding the validity of these regulations on agreeing to deviation from operational parameters, reduction in operation and maintenance expenses, reduced return on equity and incentive specified in these regulations
- (3) If the generating company opts to charge a lower tariff for a period not exceeding the validity of these regulations on account of lower depreciation based on the requirement of repayment in such case the unrecovered depreciation on account of reduction of depreciation by the generating company during useful life shall be allowed to be recovered after the useful life in these regulations.
- (4) The deviation from the ceiling tariff specified by the Commission, shall come into effect from the date agreed to by the generating company
- (5) The generating company and the beneficiaries of a generating station shall be required to approach the Commission for charging lower tariff in accordance with clauses (1) to (3) above. The details of the accounts and the tariff actually charged under clauses (1) to (3) shall be submitted at the time of true up.

**62) Deferred Tax liability with respect to previous tariff period**

Deferred tax liabilities for the period upto 31st March, 2009 whenever they materialise shall be recoverable directly by the generating companies as the case may be. Deferred tax liabilities for the period arising from 1.4.2009 to 31.3.2014 if any, shall not be recoverable from the beneficiaries.

**63) Hedging of Foreign Exchange Rate Variation:**

- (1) The generating company hedge foreign exchange exposure in respect of the interest and repayment of foreign currency loan taken for the generating station, in part or in full at their discretion
- (2) If the petitioner enters into hedging arrangement(s) based on its approved hedging policy, the petitioner shall communicate to the beneficiaries concerned, of entering into such arrangement(s) within thirty days.
- (3) Every generating company shall recover the cost of hedging of foreign exchange rate variation corresponding to the normative foreign debt, in the relevant year on year-to-year basis as expense in the period in which it arises and extra rupee liability corresponding to such foreign exchange rate variation shall not be allowed against the hedged foreign debt.
- (4) To the extent the generating company is not able to hedge the foreign exchange exposure, the extra rupee liability towards interest payment and loan repayment corresponding to the normative foreign currency loan in the relevant year shall be permissible, provided it is not attributable to the generating company

**64) Recovery of cost of hedging or Foreign Exchange Rate Variation (FERV):**

- (1) Every generating company rate variation on year-to-year basis as income or expense in the period in which it arises.
- (2) Recovery of cost of hedging or foreign exchange rate variation shall be made directly by the generating company without making any application before the Commission:  
  
Provided that in case of any objections by the beneficiaries or the amounts claimed on account of cost of hedging or foreign exchange rate variation, the generating company may make an appropriate application before the Commission for its decision.

**65) Application fee and the publication expenses**

The following fees, charges and expenses shall be reimbursed directly by the beneficiary in the manner specified herein:

- (1) The application filing fee and the expenses incurred on publication of notices in the application for approval of tariff, may in the discretion of the Commission, be allowed to be recovered by the generating company directly from the beneficiaries
- (2) The fees and charges shall be reimbursed directly by the beneficiaries in proportion of their allocation in the generating stations.
- (3) Fees and charges paid by the generating companies under the Karnataka Electricity Regulatory Commission (Fees) Regulations, 2016, as amended from time to time or any new regulations made in lieu thereof.

The Commission may, for the reasons to be recorded in writing and after hearing the affected parties, allow reimbursement of any fee or expenses, as may be considered necessary.

**66) Power to Relax**

The Commission, for reasons to be recorded in writing, may relax any of the provisions of these regulations on its own motion or on an application made before it by an interested person

**67) Power to Remove Difficulty:**

If any difficulty arises in giving effect to the provisions of these regulations, the Commission may, by order, make such provision not inconsistent with the provisions of the Act or provisions of other regulations specified by the Commission, as may appear to be necessary for removing the difficulty in giving effect to the objectives of these regulations.

**By Approval of the Commission**

**Secretary**

**Karnataka Electricity Regulatory Commission**

## Appendix

## Depreciation Schedule

Sl. No.	Asset Particulars	Depreciation Rate (Salvage Value=10%) SLM
<b>A</b>	<b>Land under full ownership</b>	0.00%
<b>B</b>	<b>Land under lease</b>	
(a)	for investment in the land	3.34%
(b)	For cost of clearing the site	3.34%
(c)	Land for reservoir in case of hydro generating station	3.34%
<b>C</b>	<b>Assets purchased new</b>	
a.	Plant & Machinery in generating stations	
(i)	Hydro electric	5.28%
(ii)	Steam electric NHRB & waste heat recovery boilers	5.28%
(iii)	Diesel electric and gas plant	5.28%
b.	Cooling towers & circulating water systems	5.28%
c.	Hydraulic works forming part of the Hydro-generating stations	
(i)	Dams, Spillways, Weirs, Canals, Reinforced concrete flumes and siphons	5.28%
(ii)	Reinforced concrete pipelines and surge tanks, steel pipelines, sluice gates, steel surge tanks, hydraulic control valves and hydraulic works	5.28%
d.	Building & Civil Engineering works	
(i)	Offices and showrooms	3.34%
(ii)	Containing thermo-electric generating plant	3.34%
(iii)	Containing hydro-electric generating plant	3.34%
(iv)	Temporary erections such as wooden structures	100.00%

(v)	Roads other than Kutcha roads	3.34%
(vi)	Others	3.34%
e.	Transformers, Kiosk, sub-station equipment & other fixed apparatus (including plant)	
(i)	Transformers including foundations having rating of 100 KVA and over	5.28%
(ii)	Others	5.28%
f.	Switchgear including cable connections	5.28%
g.	Lightning arrestor	
(i)	Station type	5.28%
ii)	Pole type	5.28%
(iii)	Synchronous condenser	5.28%
h.	Batteries	5.28%
(i)	Underground cable including joint boxes and disconnected boxes	5.28%
(ii)	Cable duct system	5.28%
i.	Overhead lines including cable support	
(i)	Lines on fabricated steel operating at terminal voltages higher than 66 KV	5.28%
(ii)	Lines on steel supports operating at terminal voltages higher than 13.2 KV but not exceeding 66 KV	5.28%
(iii)	Lines on steel on reinforced concrete support	5.28%
(iv)	Lines on treated wood support	5.28%
j.	Meters	5.28%
k.	Self-propelled vehicles	9.50%

I.	Air Conditioning Plants	
(i)	Static	5.28%
(ii)	Portable	9.50%
m.(i)	Office furniture and furnishing	6.33%
(ii)	Office equipment	6.33%
(iii)	Internal wiring including fittings and apparatus	6.33%
(iv)	Street Light fittings	5.28%
n.	Apparatus let on hire	
(i)	Other than motors	9.50%
(ii)	Motors	6.33%
o.	Communication equipment	
(i)	Radio and high frequency carrier system	6.33%
(ii)	Telephone lines and telephones	6.33%
(iii)	Fibre Optic	6.33%
p.	I. T Equipment including software	15.00%
q.	Any other assets not covered above	5.28%

**Note:** Where life of the particular asset is less than useful life of the project, the useful life of such particular asset shall be considered as per the provisions of the Companies Act, 2013 and subsequent amendment thereto.

**List of Stake Holders submitted Comments/views/suggestions**

1	Bangalore Electricity Supply Company
2	Mangalore Electricity Supply Company
3	Chamundeshwari Electricity Supply Corporation Ltd.,
4	Hubli Electricity Supply Company Ltd.,
5	Gulbarga Electricity Supply Company Ltd.,
6	Karnataka Power Corporation Ltd.,
7	Karnataka Power Transmission Corporation Ltd.,
8	Power Company of Karnataka Limited

**List of persons participated in Public Hearing on 07.12.2020:**

1	Managing Director, KPCL
2	Managing Director, GESCOM
3	General Manger Power Purchase, BESCOM
4	Superintending Engineer (Commercial), MESCOM
5	General Manger (Commercial), CESC
6	General Manger (Technical), HESCOM
7	Deputy Controller of Accounts, PCKL
8	Executive Engineer RA, KPTCL
9	Representative of FKCCI,
10	Umesh Madivala

# TARIFF FILING FORMS (THERMAL) FOR DETERMINATION OF TARIFF Main Tariff Form

## PART-I Annexure

### **Check list of Main Tariff Forms and other information for tariff filing for Thermal Stations**

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM- 1	Summary of Tariff	
FORM -1 (I)	Statement showing claimed capital cost	
FORM -1 (II)	Statement showing Return on Equity	
FORM-2	Plant Characteristics	
FORM-3	Normative parameters considered for tariff	
FORM- 4	Details of Foreign loans	
FORM- 4A	Details of Foreign Equity	
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	
FORM- 6	Financial Package upto COD	
FORM- 7	Details of Project Specific Loans	
FORM- 8	Details of Allocation of corporate loans to various projects	
FORM-9	Statement of Additional Capitalisation after COD	
FORM- 10	Financing of Additional Capitalisation	
FORM- 11	Calculation of Depreciation on original project cost	
FORM- 12	Statement of Depreciation	
FORM- 13	Calculation of Weighted Average Rate of Interest on	
FORM- 14	Draw Down Schedule for Calculation of IDC & financing	
FORM- 15	Details of Fuel for Computation of Energy Charges <sup>1</sup>	
FORM- 16	Details of Limestone for Computation of Energy Charge	
FORM-17	Details of Capital Spares	
FORM- 18	Non-Tariff Income	
FORM-19	Details of Water Charges	
FORM-20	Details of Statutory Charges	



**PART-I**

**List of Supporting Forms /documents for tariff filing for Thermal Stations**

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM-A	Abstract of Capital Cost Estimates	
FORM-B	Break-up of Capital Cost for Coal/Lignite based projects	
FORM-C	Break-up of Capital Cost for Gas/Liquid fuel based Projects	
FORM-D	Break-up of Construction/Supply/Service packages	
FORM-E	Details of variables, parameters, optional package etc. for New	
FORM-F	Details of cost over run	
FORM-G	Details of time over run	
FORM -H	Statement of Additional Capitalisation during end of the useful life	
FORM -I	Details of Assets De-capitalised during the period	
FORM -J	Reconciliation of Capitalisation claimed vis-à-vis books of accounts	
FORM -K	Statement showing details of items/assets/works claimed under Exclusions	
FORM-L	Statement of Capital cost	
FORM-M	Statement of Capital Woks in Progress	
FORM-N	Calculation of Interest on Normative Loan	
FORM-O	Calculation of Interest on Working Capital	
FORM-P	Incidental Expenditure up to SCOD and up to Actual COD	
FORM-Q	Expenditure under different packages up to SCOD and up to Actual	
FORM-R	Actual cash expenditure	
FORM-S	Statement of Liability flow	
FORM-T	Summary of issues involved in the petition	

**List of Supporting documents for tariff filling for Thermal Stations**

S. No.	Information / Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Station setup by a company making tariff application for the first time to CERC)	
2	A. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures on COD of the Station for the new station & for the relevant years. B. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the existing station for relevant years.	
3	Copies of relevant loan Agreements	
4	Copies of the approval of Competent Authority for the Capital Cost and b Financial package.	
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	
6	Copies of the BPSA/PPA with the beneficiaries, if any	
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	
8	Generating Company shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the Generating Unit wise /stage wise/Station wise/ and subsequently consolidated at Company level as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	
9	Any other relevant information, (Please specify)	
10.	Reconciliation with Balance sheet of any actual additional capitalization and amongst stages of a generating station	

Note 1: Electronic copy of the petition (in words format) and detailed calculation as per these formats (in excel format) and any other information submitted has to be uploaded in the e-filing website and shall also be furnished in pen drive/flash drive.

**Summary of Tariff**

PART-I  
FORM-1

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station: \_\_\_\_\_

Place (Region/District/State): \_\_\_\_\_

S. No.	Particulars	Unit	Existing 2018- 19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8	9
1.1	Depreciation	Rs Lakh						
1.2	Interest on Loan	Rs Lakh						
1.3	Return on Equity <sup>1</sup>	Rs Lakh						
1.4	Interest on Working Capital	Rs Lakh						
1.5	O&M Expenses	Rs Lakh						
1.6	Special Allowance (If applicable)	Rs Lakh						
1.7	Compensation Allowance (If applicable - relevant for column 4 only)	Rs. Lakh						
	Total	Rs Lakh						
2.1	Landed Fuel Cost (coal/gas/RLNG/ liquid) as per FSA approved by beneficiaries	Rs/Ton						
	(%) of Fuel Quantity	(%)						
2.2	Landed Fuel Cost Imported Coal as per FSA approved by beneficiaries							
	(%) of Fuel Quantity							
2.3	Landed Fuel Cost (coal/gas /RLNG/liquid) other than FSA	Rs/Ton						
	(%) of Fuel Quantity	(%)						
2.4	Landed Fuel Cost Imported Coal other than FSA.							
	(%) of Fuel Quantity							

S. No.	Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8	9
2.5	Secondary fuel oil cost	Rs/Unit						
	Energy Charge Rate ex-bus (Paise/kWh) 2A,	Rs/Unit						

(Petitioner)

Note:

1. Details of calculations, considering equity as per regulation, to be furnished.

2A. If multi fuel is used simultaneously, give 2 in respect of every fuel individually.

2B. The rate of energy charge shall be computed for open cycle operation and combined cycle operation separately in case of gas/liquid fuel fired plants.

2C. The total energy charge shall be worked out based on ex-bus energy scheduled to be sent out.

2D. The Energy Charge rate for the month shall be based on fuel cost(s) and GCV(s) for the month as per Regulation 43.

2E. In case breakup is not available for 2.1 to 2.5, consolidated statement needs to be submitted.

Statement showing claimed capital cost-(A+B)

Name of the Petitioner: \_\_\_\_\_

Name of the Generating Station: \_\_\_\_\_

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost					
2	Add: Addition during the year/period					
3	Less: De-capitalisation during the year/period					
4	Less: Reversal during the year / period					
5	Add: Discharges during the year/ period					
6	Closing Capital Cost					
7	Average Capital Cost					

Statement showing claimed capital cost eligible for RoE at normal rate (A)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost					
2	Add: Addition during the year / period					
3	Less: De-capitalisation during the year / period					
4	Less: Reversal during the year / period					
5	Add: Discharges during the year / period					
6	Closing Capital Cost					
7	Average Capital Cost					

Statement showing claimed capital cost eligible for RoE at weighted averagerate of  
interest on actual loan portfolio(B)

S. No.	Particular s	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost					
2	Add: Addition during the year / period					
3	Less: De-capitalisation during the year / period					
4	Less: Reversal during the year / period					
5	Add: Discharges during the year / period					
6	Closing Capital Cost					
7	Average Capital Cost					

(Petitioner)

Statement showing Return on Equity at Normal Rate:

Name of the Petitioner: \_\_\_\_\_

Name of the Generating Station: \_\_\_\_\_

SN	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	Return on Equity					
1	Gross Opening Equity (Normal)					
2	Less: Adjustment in Opening Equity					
3	Adjustment during the year					
4	Net Opening Equity (Normal)					
5	Add: Increase in equity due to addition during the year / period					
7	Less: Decrease due to De-capitalisation during the year / period					
8	Less: Decrease due to reversal during the year / period					
9	Add: Increase due to discharges during the year / period					
10	Net closing Equity (Normal)					
11	Average Equity (Normal)					
12	Rate of ROE					
12	Total ROE					

(Petitioner)

Statement showing Return on Equity at Normal Rate:

Name of the Petitioner: \_\_\_\_\_

Name of the Generating Station: \_\_\_\_\_

Sr	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)					
1	Gross Opening Equity (Normal)					
2	Less: Adjustment in Opening Equity					
3	Adjustment during the year					
4	Net Opening Equity (Normal)					
5	Add: Increase in equity due to addition during the year / period					
7	Less: Decrease due to De-capitalisation during the year / period					
8	Less: Decrease due to reversal during the year / period					
9	Add: Increase due to discharges during the year / period					
10	Net closing Equity (Normal)					
11	Average Equity (Normal)					
12	Rate of ROE					
12	Total ROE					

(Petitioner)



Plant Characteristics

Name of the Petitioner: \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

Unit(s)/Block(s)/Parameters	Unit-I	Unit-II	Unit-III	....		
Installed Capacity ( MW)						
Schedule COD as per Investment Approval						
Actual COD /Date of Taken Over (as applicable)						
Pit Head or Non Pit Head						
Name of the Boiler Manufacture						
Name of Turbine Generator Manufacture						
Main Steams Pressure at Turbine inlet (kg/Cm <sup>2</sup> ) abs <sup>1</sup> .						
Main Steam Temperature at Turbine inlet (°C) <sup>1</sup>						
Reheat Steam Pressure at Turbine inlet (kg/Cm <sup>2</sup> ) <sup>1</sup>						
Reheat Steam Temperature at Turbine inlet (°C) <sup>1</sup>						
Main Steam flow at Turbine inlet under MCR condition (tons /hr) <sup>2</sup>						
Main Steam flow at Turbine inlet under VWO condition (tons /hr) <sup>2</sup>						
Unit Gross electrical output under MCR /Rated condition (MW) <sup>2</sup>						
Unit Gross electrical output under VWO condition (MW) <sup>2</sup>						
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) <sup>3</sup>						
Conditions on which design turbine cycle heat rate guaranteed						
% MCR						
% Makeup Water Consumption						
Design Capacity of Makeup Water System						
Design Capacity of Inlet Cooling System						
Design Cooling Water Temperature (°C)						
Back Pressure						
Steam flow at super heater outlet under BMCR condition (tons/hr)						
Steam Pressure at super heater outlet under BMCR condition) (kg/Cm <sup>2</sup> )						
Steam Temperature at super heater outlet under BMCR condition (°C)						

Unit(s)/Block(s)/Parameters	Unit-I	Unit-II	Unit-III	....		
Steam Temperature at Reheater outlet at BMCR condition ( $^{\circ}\text{C}$ )						
Design / Guaranteed Boiler Efficiency (%) <sup>4</sup>						
Design Fuel with and without Blending of domestic/imported coal						
Type of Cooling Tower						
Type of cooling system <sup>5</sup>						
Type of Boiler Feed Pump <sup>6</sup>						
Type of Coal Mill						
Fuel Details <sup>7</sup>						
-Primary Fuel						
-Secondary Fuel						
-Alternate Fuels						
Types of SOX control system						
Types of NOX control system						
Details of SPM control system						
Special Features/Site Specific Features <sup>8</sup>						
Special Technological Features <sup>9</sup>						
Environmental Regulation related features <sup>10</sup>						
Any other special features						
1. At Turbine MCR condition.						
2. With 0% (Nil) make up and design Cooling water temperature						
3. At TMCR output based on gross generation, 0% (Nil) makeup and design Cooling water temperature.						
4. With Performance coal based on Higher Heating Value (HHV) of fuel and at BMCR) out put						
5. Closed circuit cooling, once through cooling, sea cooling, natural draft cooling, induced draft cooling etc.						
6. Motor driven, Steam turbine driven etc.						
7. Coal or natural gas or Naptha or lignite etc.						
8. Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake /makeup water systems etc. scrubbers etc. Specify all such features						
9. Any Special Technological feature like Advanced class FA technology in Gas Turbines, etc.						
10. Environmental Regulation related features like FGD, ESP etc.,						
Note 1: In case of deviation from specified conditions in Regulation, correction curve of manufacturer may also be submitted.						
Note 2: Heat Balance Diagram has to be submitted along with above information in case of new stations.						
Note 3: The Terms – MCR, BMCR, HHV, Performance coal, are as defined in CEA Technical Standards for Construction of Electric Plants and Electric Lines Regulations – 2010 notified by the Central Electricity Authority.						

Normative parameters considered for tariff computations

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Year Ending March)

Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
Base Rate of Return on Equity	%						
Base Rate of Return on Equity on Add. Capitalization	%						
Effective Tax Rate <sup>4</sup>	%						
Target Availability	%						
In High Demand Season	%						
Peak Hours	%						
Off-Peak Hours	%						
In Low Demand Season (Off-Peak)	%						
Peak Hours	%						
Off-Peak Hours	%						
Auxiliary Energy Consumption	%						
Gross Station Heat Rate	kCal/kWh						
Specific Fuel Oil Consumption	ml/kWh						
Cost of Coal/Lignite for WC <sup>1</sup>	in Months						
Cost of Main Secondary Fuel Oil for WC <sup>1</sup>	in Months						
Fuel Cost for WC <sup>2</sup>	in Months						
Liquid Fuel Stock for WC <sup>2</sup>	in Months						
O&M Expenses	Rs lakh / MW						
Maintenance Spares for WC	% of O&M						
Receivables for WC	in Months						
Storage capacity of Primary fuel	MT						
SBI 1 Year MCLR plus 350 basis point <sup>3</sup>	%						
Blending ratio of domestic coal/imported coal							

(Petitioner)

PART 1  
FORM- 4

(Details only in respect of loans applicable to the project under petition)

Name of the Petitioner

Name of the Generating Station \_\_\_\_\_

Exchange Rate at COD or 31.03.2019, whichever is later

Exchange Rate as on 31.3.2019

[illegible]

[illegible]

[illegible]

Currency <sup>21</sup>													
A.1 At the date of infusion <sup>2</sup>													
2													
3													
Currency <sup>31</sup>													
A.1 At the date of infusion <sup>2</sup>													
2													
3													
Currency <sup>1</sup> and so on													
A.1 At the date of infusion <sup>2</sup>													
2													
3													

1. Name of the currency to be mentioned e.g. US\$, DM, etc.

2. In case of equity infusion more than once during the year, Exchange rate at the date of each infusion to be given.

(Petitioner)

PART 1  
FORM- 5

Abstract of Admitted Capital Cost for the existing Projects

Name of the Petitioner

Name of the Generating Station

\_\_\_\_\_

Last date of order of Commission for the project	Date (DD-MM-YYYY)	
Reference of petition no. in which the above order was passed	Petition no.	
Following details (whether admitted and /or considered) as on the last date of the period for which tariff is approved, in the above order by the Commission:		

Capital cost	(Rs. in lakh)*	
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		
Gross Normative Debt		
Cumulative Repayment		
Net Normative Debt		
Normative Equity		
Cumulative Depreciation		
Freehold land		

(Petitioner)



Financial Package up to COD

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

Project Cost as on COD<sup>1</sup> \_\_\_\_\_

Date of Commercial Operation of the Station<sup>2</sup> \_\_\_\_\_

	Financial Package as Approved		Financial Package as on		As Admitted on COD	
	Currency and Amount <sup>3</sup>		Currency and Amount <sup>3</sup>		Currency and	
1	2	3	4	5	6	7
Loan-I	US \$	200m				
Loan-II						
Loan-III						
and so on						
Equity-						
Foreign						
Domestic						
Total Equity						
Debt : Equity Ratio						

Note:

1. Say Rs. 80 Cr. + US\$ 200 m or Rs. 1480 Cr. including US\$ 200 m at an exchange rate of US\$=Rs70

2. Provide details on commercial operation as on COD of each Unit

3. For example: US \$ 200m, etc.

(Petitioner)

Details of project specific loans

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

Particulars	Package1	Package2	Package3	Package4	Package5	Package6
1	2	3	4	5	6	7
Source of Loan <sup>1</sup>						
Currency <sup>2</sup>						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2019/COD 3,4,5,13,15						
Interest Type <sup>6</sup>						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest <sup>7</sup>						
Margin, if Floating Interest <sup>8</sup>						
Are there any Caps/Floor <sup>9</sup>	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
If above is yes, specify caps/floor						
Moratorium Period <sup>10</sup>						
Moratorium effective from						
Repayment Period <sup>11</sup>						
Repayment effective from						

Repayment Frequency <sup>12</sup>						
Repayment Instalment <sup>13,14</sup>						
Base Exchange Rate <sup>16</sup>						
Are foreign currency loan hedged?						
If above is yes, specify details <sup>17</sup>						

Note:

1. Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.
2. Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
3. Details are to be submitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.
4. Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.
5. If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the same form.
6. Interest type means whether the interest is fixed or floating.
7. Base rate means the base as PLR, MCLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.
8. Margin means the points over and above the floating rate.
9. At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
10. Moratorium period refers to the period during which loan servicing liability is not required.
11. Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

13. Where there is more than one drawl/repayment for a loan, the date & amount of each drawl/repayment may also be given separately

14. If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.

15. In case of Foreign loan, date of each drawl& repayment along with exchange rate at that date may be given.

16. Base exchange rate means the exchange rate prevailing as on 31.03.2019 or COD, whichever is later

17. In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.

18. In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

19. At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately

20. At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing, etc.

(Petitioner)

Details of Allocation of corporate loans to various projects

Name of the Petitioner \_\_\_\_\_  
Name of the Generating Station \_\_\_\_\_

Particulars	Package1	Package2	Package3	Package4	Package5	Remarks
1	2	3	4	5	6	7
Source of Loan <sup>1</sup>						
Currency <sup>2</sup>						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2019/COD 3,4,5,13,15						
Interest Type <sup>6</sup>						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest <sup>7</sup>						
Margin, if Floating Interest <sup>8</sup>						
Are there any Caps/Floor <sup>9</sup>	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	
If above is yes, specify caps/floor						
Moratorium Period <sup>10</sup>						
Moratorium effective from						
Repayment Period <sup>11</sup>						
Repayment effective from						
Repayment Frequency <sup>12</sup>						
Repayment Instalment <sup>13,14</sup>						
Base Exchange Rate <sup>16</sup>						
Are foreign currency loan hedged?						
If above is yes, specify details <sup>17</sup>						
	Distribution of loan packages to various projects					
Name of the Projects						Total

Particulars	Package1	Package2	Package3	Package4	Package5	Remarks
1	2	3	4	5	6	7
Project 1						
Project 2						
Project 3 and so on						

## Note:

1. Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.
2. Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
3. Details are to be submitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.
4. Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.
5. If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the same form.
6. Interest type means whether the interest is fixed or floating.
7. Base rate means the base as PLR, MCLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.
8. Margin means the points over and above the floating rate.
9. At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
10. Moratorium period refers to the period during which loan servicing liability is not required.
11. Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
12. Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half-yearly, annual, etc.
13. Where there is more than one drawl/repayment for a loan, the date & amount of each drawl/repayment may also be given separately

14. If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
15. In case of Foreign loan, date of each drawl & repayment along with exchange rate at that date may be given.
16. Base Exchange Rate means the exchange rate prevailing as on 31.03.2019 or COD, whichever is later
17. In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
18. In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.
19. At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately
20. At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.

(Petitioner)

PART 1  
FORM- 9

Yearwise Statement of Additional Capitalisation after COD

Name of the Petitioner

Name of the Generating Station

COD

For Financial Year

S. No. 1	Head of Work / Equipmen t 2	ACE Claimed (Actual / Projected)				Regulation s under which claimed 7	Justification 8	Admitted Cost by the Commission , if any 9
		Accrual included basis in col. 3 3	Un-discharged Liability included in column 3 4	Cash basis IDC (5 = 3 - 4) 5	6			

1. In case the project has been completed and cost has already been admitted under any tariff notification(s) in the past, fill column 9 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority) (Enclose copy of the Tariff Order).
2. The above information needs to be furnished separately for each year / period of tariff period 2019-24.
3. In case of de-capitalisation of assets separate details to be furnished at column 1, 2, 3 and 4. Further, the original book value and year of capitalisation of such asset to be furnished at column 8. Where de-caps are on estimated basis the same to be shown separately.
4. Where any asset is rendered unserviceable the same shall be treated as de-capitalised during that year and original value of such asset to be shown at col. 3. and impaired value if any, year of its capitalisation to be mentioned at column 8.
5. Justification against each asset of capitalization should be specific to regulations under which claim has been made and the necessity of capitalization of that particular asset.

Note:

1. Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and the benefits accruing to the beneficiaries.
2. In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated separately. e.g. Rotor - 50 Crs. Initial spares- 5 Crs.

(Petitioner)



PART 1  
FORM-10

Financing of Additional Capitalisation

Name of the Petitioner \_\_\_\_\_  
Name of the Generating Station \_\_\_\_\_  
Date of Commercial Operation \_\_\_\_\_

Financial Year (Starting from COD) <sup>1</sup>	Actual					Admitted				
	Year 1	Year 2	Year 3	Year 4	Year 5 & So on	Year 1	Year 2	Year 3	Year 4	Year 5 & So on
1	2	3	4	5	6	7	8	9	10	11
Amount capitalised in Work/ Equipmer										
Financing Details										
Loan-1										
Loan-2										
Loan-3 and so on										
Total Loan <sup>2</sup>										
Equity										
Internal Resources										
Others (Pl. specify)										
Total										

Note:

1. Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent financial years respectively.
2. Loan details for meeting the additional capitalisation requirement should be given as per FORM-7 or 8 whichever is relevant.

(Petitioner)

Calculation of Depreciation

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs Lakh)

S. No.	Name of the Assets <sup>1</sup>	Gross Block as on 31.03.2019 or as on COD, whichever is later and subsequently for each year thereafter upto 31.3.2024	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 31.03.2024
1	2	3	4	5 = Col.3 X Col.4
1	Land*			
2	Building			
3	and so on			
4				
5				
6				
7				
8				
9				
10				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
	TOTAL			
	Weighted Average Rate of			
	Depreciation (%)			

\*Provide details of Freehold land and Lease hold land separately

Note:

1. Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification.

(Petitioner)

Statement of Depreciation

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs Lakh)

S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1.	Opening Capital Cost						
2.	Closing Capital Cost						
3.	Average Capital Cost						
4.	Freehold land						
5.	Rate of depreciation						
6.	Depreciable value						
7.	Balance useful life at the beginning of the period						
8.	Remaining depreciable value						
9.	Depreciation (for the period)						
10.	Depreciation (analysed)						
11.	Cumulative depreciation at the end of the period						
12.	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009						
13.	Less: Cumulative depreciation adjustment on account of de-capitalisation						
14.	Net Cumulative depreciation at the end of the period						

1. In case of details of FERV, give information for the applicable period

(Petitioner)

Calculation of Weighted Average Rate of Interest on Actual Loans<sup>1</sup>

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs. Lakh)

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-1						
Gross loan - Opening						
Cumulative repayments of Loans upto previous year						
Net loan - Opening						
Add: Drawl(s) during the Year						
Less: Repayment (s) of Loans during the year						
Net loan - Closing						
Average Net Loan						
Rate of Interest on Loan on annual basis						
Interest on loan						
Loan-2						
Gross loan - Opening						
Cumulative repayments of Loans upto previous year						
Net loan - Opening						
Add: Drawl(s) during the Year						
Less: Repayment (s) of Loans during the year						
Net loan - Closing						
Average Net Loan						
Rate of Interest on Loan on annual basis						
Interest on loan						
Loan-3 and so on						

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Gross loan - Opening						
Cumulative repayments of Loans upto previous year						
Net loan - Opening						
Add: Drawl(s) during the Year						
Less: Repayment (s) of Loans during the year						
Net loan - Closing						
Average Net Loan						
Rate of Interest on Loan on annual basis						
Interest on loan						
Total Loan						
Gross loan - Opening						
Cumulative repayments of Loans upto previous year						
Net loan - Opening						
Add: Drawl(s) during the Year						
Less: Repayment (s) of Loans during the year						
Net loan - Closing						
Average Net Loan						
Interest on loan						
Weighted average Rate of Interest on Loans						

Note:

1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.

(Petitioner)

### Draw Down Schedule for Calculation of IDC & Financing Charges

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

[illegible]

S. No.	Draw Down  Particulars	Quarter 1 Quantum Exchange Amount in Foreign Rate on draw down in Indian Rupee (Rs date Lakh)	Quarte r 2 Quantum Exchange Amount in Foreign Rate on draw down Rupee (Rs date Lakh)	Quarter n (COD) Exchange Amount in Foreign Rate on draw down currency rate on Indian Rupees (Rs date Lakh)
	Hedging Cost			
1.1.3	Foreign Loan <sup>3</sup> Draw down Amount			
	IDC			
	Financing charges			
	Foreign Exchange Rate Variation			
	Hedging Cost			
1.1.4	--			
	--			
	--			
1.1	Total Foreign Loans			
	Draw down Amount			
	IDC			
	Financing charges			
	Foreign Exchange Rate Variation			
	Hedging Cost			
1.2	Indian Loans			
	Draw Down	Quarter	Quarte	Quarter n (COD)

[illegible]





Note:

1. Drawl of debt and equity shall be on pari-passu basis quarter wise to meet the commissioning schedule. Drawl of higher equity in the beginning is permissible
2. Applicable interest rates including reset dates used for above computation may be furnished separately
3. In case of multi unit project details of capitalization ratio used to be furnished.

(Petitioner)

PART 1  
FORM- 15

Details of Sourcewise Fuel for Computation of Energy Charges<sup>1</sup>

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

S. No.	Month	Unit	For preceding 3rd Month (from COD or from 1.4.2019 as the case may be )			For preceding 2nd Month (from COD or from 1.4.2019 as the case may be )		For preceding 1st Month (from COD or from 1.4.2019 as the case may be )	
			Domestic Source (1)	Domestic Source (2)	Imported	Domestic	Imported	Domestic	Imported
A)	OPENING QUANTITY								
1	Opening Quantity of Coal/Lignite	(MMT)							
2	Value of Stock								
B)	QUANTITY								
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MMT)							
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)							

5	Coal supplied by Coal/Lignite Company (3+4)	(MMT)							
6	Normative Transit & Handling Losses (For	(MMT)							
S. No.	Month	Unit	For preceding 3rd Month (from COD or from 1.4.2019 as the case may be )			For preceding 2nd Month (from COD or from 1.4.2019 as the case may be )		For preceding 1st Month (from COD or from 1.4.2019 as the case may be )	
	coal/Lignite based Projects)								
7	Net coal / Lignite Supplied (3-4)	(MMT)							
C)	PRICE								
8	Amount charged by the Coal /Lignite Company	(Rs.)							
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)							
10	Handling, Sampling and such other similar charges								
11	Total amount Charged (8+9+10)	(Rs.)							
D)	TRANSPORATION								
12	Transportation charges by rail/ship/road transport	(Rs.)							
	By Rail								
	By Road								
	By Ship								
	.....								

13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)							
S. No.	Month	Unit	For preceding 3rd Month			For preceding 2nd Month		For preceding 1st Month	
			(from COD or from 1.4.2019 as the case may be )			(from COD or from 1.4.2019 as the case may be )		(from COD or from 1.4.2019 as the case may be )	
14	Demurrage Charges, if any	( Rs.)							
15	Cost of diesel in transporting coal through MGR system, if applicable	( Rs.)							
16	Total Transportation Charges (12+13+14+15)	( Rs.)							
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	( Rs.)							
E)	TOTAL COST								
18	Landed cost of coal/ Lignite (2+17)/(1+7)	Rs./MT							
19	Blending Ratio (Domestic/Imported)								
20	Weighted average cost of coal/ Lignite for preceding three months	Rs./MT							
F)	QUALITY								
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)							
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)							

S. No.	Month	Unit	For preceding 3rd Month (from COD or from 1.4.2019 as the case may be )				For preceding 2nd Month (from COD or from 1.4.2019 as the case may be )		For preceding 1st Month (from COD or from 1.4.2019 as the case may be )	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)								
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)								
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)								
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)								
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)								
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)								
29	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)								
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)								

Note:

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

3. Details to be provided for each source separately. In case of more than one source, add additional column.
4. Break up of the amount charged by the Coal Company is to be provided separately.  
(Petitioner)

PART 1  
FORM- 16

Detailsof Lime stonefor Computation of Energy  
Charge Rate

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

S. No.	Month	Unit	For preceding	For preceding	For preceding
			3rd Month (from COD or from 1.4.2019 as the case may be )	2nd Month (from COD or from 1.4.2019 as the case may be )	1st Month (from COD or from 1.4.2019 as the case may be )
1	Quantity of Limestone supplied by Limestone supply Company	(MMT)			
2	Adjustment (+/-) in quantity supplied made by Limestone supply Company	(MMT)			
3	Limestone supplied by Limestone supply Company(1+2)	(MMT)			
4	Net Limestone Supplied (3-4)	(MMT)			
5	Amount charged by the Limestone supply Company	(Rs.)			
6	Adjustment (+/-) in amount charged made by Limestone supply Company	(Rs.)			
7	Total amount Charged (6+7)	(Rs.)			
8	Transportation charges by rail/ship/road transport	( Rs.)			

9	Adjustment (+/-) in amount charged made by Railways/Transport Company	( Rs.)			
10	Demurrage Charges, if any	( Rs.)			
11	Total Transportation Charges (8+/-9-10)	( Rs.)			
12	Total amount Charged for Limestone supplied including Transportation (7+11)	( Rs.)			

PART 1  
FORM- 17

Details of Capital Spares

Name of the Petitioner \_\_\_\_\_  
Name of the Generating Station \_\_\_\_\_

S. No.	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through compensatory allowance	Funded through Special allowance (If Applicable)	Claimed as a part of stores and spares
	Name of	Amount in Rs.				
1						
2						
3						
4						

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..೩/೩

5						
6						
7						
8						

(Petitioner)

PART 1  
FORM- 18Non-Tariff Income

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

S. No.	Parameters	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1.	Income from rent of land or buildings						
2.	Income from sale of scrap						
3.	Income from advertisements						

Note: To be submitted at the time of truing up

(Petitioner)



DetailsofWater Charges

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

S. No	Details of Water charges (excluding water cess)		Quantity allocated	Normative consumption at 85% PLF	Rate specified (as per govt. notification or agreement)	Spillage of water (in percentage)	Amount Claimed
	Name of source and quantity	Amount	Unit....	Unit....			
1							
2							
3							
4							
5							
6							

(Petitioner)

DetailsofStatutoryCharges

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

Particulars	Unit Rate	No of Units	Amount Claimed
Electricity Duty			
Water Cess			
...			
...			
...			

(Petitioner)

Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Projects

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

Board of Director / Agency approving the Capital cost estimates:		
Date of approval of the Capital cost estimates:		
	Present Day Cost	Completed Cost
Price level of approved estimates	As on End of _____ Qtr. Of the year _____	As on Scheduled COD of the Station
Foreign Exchange rate considered for the Capital cost estimates		
Capital Cost excluding IDC, IEDC & FC (Rs. Lakh)		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. Lakh)		
Capital cost excluding IDC, IEDC, FC, FERV & Hedging Cost (Rs. Lakh)		
IDC, IEDC,FC, FERV & Hedging Cost		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. Lakh)		
Total IDC, IEDC, FC, FERV & Hedging Cost (Rs. Lakh)		
Rate of taxes & duties considered		

Capital cost Including IDC, IEDC, FC, FERV & Hedging Cost	
Foreign Component, if any (In Million US \$ or the relevant Currency)	
Domestic Component (Rs. Lakh)	
Capital cost Including IDC, IEDC& FC (Rs. Lakh)	
Schedule of Commissioning	
Scheduled COD of Unit-I/Block-I as per Investment Approval	
Scheduled COD of Unit-II/Block-II as per Investment Approval	
-----	
-----	
Scheduled COD of last Unit/Block	

Note:

1. Copy of Investment approval letter should be enclosed.
2. Details of Capital Cost are to be furnished as per FORM B or C as applicable.
3. Details of IDC & Financing Charges are to be furnished as per FORM-14.

(Petitioner)

Break-up of Capital Cost for New Coal/Lignite based projects

Name of the Petitioner

Name of the Generating Station \_\_\_\_\_

(Amount in Rs. Lakh)

S. No.	Break Down	As per Original Estimates as per Investment Approval	Actual Capital Expenditure as on COD/ anticipated COD	Liabilities/ Provisions	Variation (3 - 4 - 5)	Specific Reasons for Variation	Estimated Capital expenditure upto Cut-off date
1	2	3	Actual Amount	5	6	7	8
1	Cost of Land & Site Development						
1.1	Land*						
1.2	Rehabilitation & Resettlement (R&R)						
1.3	Preliminary Investigation & Site Development						
	Total Land & Site Development						
2	Plant & Equipment						
2.1	Steam Generator Island						
2.2	Turbine Generator Island						
2.3	BOP Mechanical						
2.3.1	External water supply system						
2.3.2	CW system						
2.3.3	DM water Plant						
2.3.4	Clarification plant						
2.3.5	Chlorination Plant						
2.3.6	Fuel Handling & Storage system						

S. No.	Break Down	As per Original Estimates as per Investment Approval	Actual Capital Expenditure as on COD/ anticipated COD	Liabilities/ Provisions	Variation (3 - 4 - 5)	Specific Reasons for Variation	Estimated Capital expenditure upto Cut-off date
1	2	3	Actual Amount	5	6	7	8
2.3.7	Ash Handling System						
2.3.8	Coal Handling Plant						
2.3.9	Rolling Stock and Locomotives						
2.3.10	MGR						
2.3.11	Air Compressor System						
2.3.12	Air Condition & Ventilation System						
2.3.13	Fire fighting System						
2.3.14	HP/LP Piping						
2.3.15	FGD system, if any						
2.3.16	De-salination plant for sea-water intake						
2.3.17	External coal handling in Jetty, if any						
	Total BOP Mechanical						
2.4	BOP Electrical						
2.4.1	Switch Yard Package						
2.4.2	Transformers Package						
2.4.3	Switch gear Package						
2.4.4	Cables, Cable facilities & grounding						
2.4.5	Lighting						
2.4.6	Emergency D.G. set						
	Total BOP Electrical						
2.5	Control & Instrumentation (C & I) Package						
	Total Plant & Equipment						

S. No.	Break Down	As per Original Estimates as per Investment Approval	Actual Capital Expenditure as on COD/ anticipated COD	Liabilities/ Provisions	Variation (3 – 4 - 5)	Specific Reasons for Variation	Estimated Capital expenditure upto Cut-off dat
			Actual Amount				
1	2	3	4	5	6	7	8
	excluding taxes & Duties						
2.6	Taxes & Duties						
3	Initial Spares						
4	Civil Works						
4.1	Main plant/Adm. Building						
4.2	CW system						
4.3	Cooling Towers						
4.4	DM water Plant						
4.5	Clarification plant						
4.6	Chlorination plant						
4.7	Fuel handling & Storage system						
4.8	Coal Handling Plant						
4.9	MGR & Marshalling Yard						
4.10	Ash Handling System						
4.11	Ash disposal area development						
4.12	Fire fighting System						
4.13	Township & Colony						
4.14	Temp. construction & enabling works						
4.15	Road & Drainage						
	Total Civil works						
5	Construction & Pre- Commissioning Expenses						

S. No.	Break Down	As per Original Estimates as per Investment Approval	Actual Capital Expenditure as on COD/ anticipated COD	Liabilities/ Provisions	Variation (3 - 4 - 5)	Specific Reasons for Variation	Estimated Capital expenditure upto Cut-off date
1	2	3	Actual Amount	5	6	7	8
5.1	Erection Testing and commissioning						
5.2	Site supervision						
5.3	Operator's Training						
5.4	Construction Insurance						
5.5	Tools & Plant						
5.6	Startup fuel						
	Total Construction & Pre-Commissioning Expenses						
6	Overheads						
6.1	Establishment						
6.2	Design & Engineering						
6.3	Audit & Accounts						
6.4	Contingency						
	Total Overheads						
7	Total Capital cost excluding IDC & FC						
8	IDC, FC, FERV & Hedging Cost						
8.1	Interest During Construction (IDC)						
8.2	Financing Charges (FC)						
8.3	Foreign Exchange Rate Variation (FERV)						
8.4	Hedging Coat						



S. No.	Break Down	As per Original Estimates as per Investment Approval	Actual Capital Expenditure as on COD/ anticipated COD	Liabilities/ Provisions	Variation (3 – 4 - 5)	Specific Reasons for Variation	Estimated Capital expenditure upto Cut-off dat
			Actual Amount				
1	2	3	4	5	6	7	8
	Total of IDC, FC,FERV & Hedging Cost						
9	Capital cost including IDC, FC, FERV & Hedging Cost						

\*Provide details of Freehold land and Lease hold land separately

Note:

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over-run was beyond the control of the generating company.
2. In case of both time & cost overrun, a detailed note giving reasons of such time and cost over-run should be submitted clearly. bringing out the agency responsible and whether such time and cost overrun was beyond the control of the generating company.
3. The implication on cost due to time over run, if any shall be submitted separately giving details of increase in prices in different packages from scheduled COD to Actual COD/anticipated COD, increase in IEDC from scheduled COD to actual COD/anticipated COD and increase of IDC from scheduled COD to actual anticipated COD.
4. Impact on account of each reason for Time over run on Cost of project should be quantified and substantiated with necessary documents and supporting workings.
5. A list of balance work assets/work wise including initial spare on original scope of works along with estimate shall be furnished positively.

(Petitioner)

Break-up of Capital Cost for Gas/Liquid fuel based projects

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs. Lakh)

S. No.	Break Down	As per Original Estimates as per Investment Approval	Actual Capital Expenditure	Liabilities/Provisions	Variation (3 - 4 - 5)	Specific Reasons for Variation*	Actual/Estimated Capital Expenditure upto Cut-off date
1	2	3	4	5	6	7	8
1	Cost of Land & Site Development						
1.1	Land*						
1.2	Rehabilitation & Resettlement (R&R)						
1.3	Preliminary Investigation & Site Development						
	Total Land & Site Development						
2	Plant & Equipment						
2.1	Steam Generator Island						
2.2	Turbine Generator Island						
2.3	WHRB Island						
2.4	BOP Mechanical						
2.4.1	Fuel Handling & Storage system						
2.4.2	External water supply system						
2.4.3	CW system						
2.4.4	Cooling Towers						
2.4.5	DM water Plant						
2.4.6	Clarification plant						

S. No.	Break Down	As per Original Estimates as per Investment Approval	Actual Capital Expenditure	Liabilities/ Provisions	Variation (3 - 4 - 5)	Specific Reasons for Variation*	Actual/Estimated Capital Expenditure upto Cut-off date
1	2	3	4	5	6	7	8
2.4.7	Chlorination Plant						
2.4.8	Air Condition & Ventilation System						
2.4.9	Fire fighting System						
2.4.10	HP/LP Piping						
	Total BOP Mechanical						
2.5	BOP Electrical						
2.5.1	Switch Yard Package						
2.5.2	Transformers Package						
2.5.3	Switch gear Package						
2.5.4	Cables, Cable facilities & grounding						
2.5.5	Lighting						
2.5.6	Emergency D.G. set						
	Total BOP Electrical						
2.6	Control & Instrumentation (C & I) Package						
	Total Plant & Equipment excluding taxes & Duties						
2.7	Taxes & Duties						
3	Initial Spares						
4	Civil Works						
4.1	Main plant/Adm. Building						

S. No.	Break Down	As per Original Estimates as per Investment Approval	Actual Capital Expenditure	Liabilities/Provisions	Variation (3 - 4 - 5)	Specific Reasons for Variation*	Actual/Estimated Capital Expenditure upto Cut-off date
1	2	3	4	5	6	7	8
4.2	External Water Supply System						
4.3	CW system						
4.4	Cooling Towers						
4.5	DM water Plant						
4.6	Clarification plant						
4.7	Fuel handling & Storage system						
4.8	Township & Colony						
4.9	Temp. construction & enabling works						
4.10	Road & Drainage						
4.11	Fire fighting System						
	Total Civil works						
5	Construction & Pre- Commissioning Expenses						
5.1	Erection Testing and commissioning						
5.2	Site supervision						
5.3	Operator's Training						
5.4	Construction Insurance						
5.5	Tools & Plant						
5.6	Startup fuel						
	Total Construction & Pre- Commissioning Expenses						
6	Overheads						
6.1	Establishment						

S. No.	Break Down	As per Original Estimates as per Investment Approval	Actual Capital Expenditure	Liabilities/Provisions	Variation (3 - 4 - 5)	Specific Reasons for Variation*	Actual/Estimated Capital Expenditure upto Cut-off date
1	2	3	4	5	6	7	8
6.2	Design & Engineering						
6.3	Audit & Accounts						
6.4	Contingency						
	Total Overheads						
7	Capital cost excluding IDC & FC						
8	IDC, FC, FERV & Hedging Cost						
8.1	Interest During Construction (IDC)						
8.2	Financing Charges (FC)						
8.3	Foreign Exchange Rate Variation (FERV)						
8.4	Hedging Cost						
	Total of IDC, FC, FERV & Hedging Cost						
9	Capital cost including IDC, FC, FERV & Hedging Cost						

\*Provide details of Freehold land and Lease hold land separately

Note:

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over-run was beyond the control of the generating company.
2. In case of time & cost overrun, a detailed note giving reasons of such time and cost over-run should be submitted clearly bringing out the agency responsible and whether such time and cost overrun was beyond the control of the generating company.
3. The implication on cost due to time over run, if any shall be submitted separately giving details of increase in prices in different packages from scheduled COD to Actual COD/anticipated COD, increase in IEDC from scheduled COD to actual COD/anticipated COD and increase of IDC from scheduled COD to actual anticipated COD.
4. Impact on account of each reason for Time over run on Cost of project should be quantified and substantiated with necessary documents and supporting workings. A list of balance work assets/work wise including initial spare on original scope of works along with estimate shall be furnished positively

(Petitioner)

Break-up of Construction/Supply/Service packages

Name of the Petitioner

Name of the Generating Station \_\_\_\_\_

(Amount in Rs. Lakh)

S. No.	Name/No. of Construction / Supply / Service Package	Package A	Package B	Package C	...	Total Cost of all packages
1	Scope of works <sup>1</sup> (in line with head of cost break-ups as applicable)					
2	Whether awarded through ICB/DCB/ Departmentally/ Deposit Work					
3	No. of bids received					
4	Date of Award					
5	Date of Start of work					
6	Date of Completion of Work/Expected date of completion of work					
7	Value of Award <sup>2</sup> in (Rs. Lakh)					
8	Firm or With Escalation in prices					
9	Actual capital expenditure till the completion or up to COD whichever is earlier(Rs.Lakh)					
10	Taxes & Duties and IEDC (Rs. Lakh)					
11	IDC, FC, FERV & Hedging cost (Rs. Lakh)					
12	Sub -total (9+10+11) (Rs. Lakh)					

Note:

1. The scope of work in any package should be indicated in conformity of Capital cost break-up for the coal/lignite based plants in the FORM-B to the extent possible. In case of Gas/Liquid fuel based projects, break down in the similar manner in the relevant heads as per FORM-C.

2. If there is any package, which need to be shown in Indian Rupee and foreign currency(ies), the same should be shown separately along

with the currency, the exchange rate and the date e.g. Rs.80 Cr. +US\$50m=Rs.430Cr. at US\$=Rs70 as on say 1.4.19.

(Petitioner)

PART 1  
FORM- E

Details of variables, parameters, optional package etc. for New Project

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

Unit Size	
Number of Units	
Greenfield/Extension	
S. No.	Variables (Design Operating Range) Values
1	Coal Quality – Calorific Value
2	Ash Content
3	Moisture Content
4	Boiler Efficiency
5	Suspended Particulate Matter
6	Ash Utilization
7	Boiler Configuration
8	Turbine Heat Rate
9	CW Temperature
10	Water Source
11	Distance of Water Source
12	Clarifier
13	Mode of Unloading Oil
14	Coal handling Mechanism
15	Type of Fly Ash Disposal and Distance
16	Type of Bottom Ash Disposal and Distance
17	Type of Soil
18	Foundation Type (Chimney)
19	Water Table
20	Seismic and Wind Zone
21	Condensate Cooling Method
22	Desalination/RO Plant
23	Evacuation Voltage Level
24	Type of Coal (Domestic/Imported)
Parameter/Variables	Values
Completion Schedule	
Terms of Payment	
Performance Guarantee Liability	
Basis of Price (Firm/Escalation-Linked)	
Equipment Supplier (Country of Origin)	
Optional Packages	Yes/No
Desalination Plant/RO Plant	
MGR	
Railway Siding	
Unloading Equipment at Jetty	
Rolling Stock/Locomotive	
FGD Plant	
Length of Transmission Line till Tie Point (in km)	

(Petitioner)

## Detail of cost over run

Name of the Petitioner

Name of the Generating Station

S. No.	Break Down	Original Cost (Rs. Lakh) as approved by the Board of Members	Actual/ Estimated Cost as incurred/to be incurred (Rs. Lakh)	Difference	Reasons for Variation (Please submit supporting computations and documents wherever applicable)	Increase in soft cost due to increase in hard cost
		Total Cost	Total Cost	Total Cost		
1	Cost of Land & Site Development					
1.1	Land*					
1.2	Rehabilitation & Resettlement (R&R)					
1.3	Preliminary Investigation & Site Development					
2	Plant & Equipment					
2.1	Steam Generator Island					
2.2	Turbine Generator Island					
2.3	BOP Mechanical					
2.3.1	Fuel Handling & Storage system					
2.3.2	External water supply system					
2.3.3	DM water Plant					
2.3.4	Clarification plant					
2.3.5	Chlorination Plant					
2.3.6	Fuel Handling & Storage system					
2.3.7	Ash Handling System					
2.3.8	Coal Handling Plant					
2.3.9	Rolling Stock and Locomotives					



S. No.	Break Down	Original Cost (Rs. Lakh) as approved by the Board of Members	Actual/ Estimated Cost as incurred/to be incurred (Rs. Lakh)	Difference	Reasons for Variation (Please submit supporting computations and documents wherever applicable)	Increase in soft cost due to increase in hard cost
		Total Cost	Total Cost	Total Cost		
2.3.10	MGR					
2.3.11	Air Compressor System					
2.3.12	Air Condition & Ventilation System					
2.3.13	Fire fighting System					
2.3.14	HP/LP Piping					
	Total BOP Mechanical					
2.4	BOP Electrical					
2.4.1	Switch Yard Package					
2.4.2	Transformers Package					
2.4.3	Switch gear Package					
2.4.4	Cables, Cable facilities & grounding					
2.4.5	Lighting					
2.4.6	Emergency D.G. set					
	Total BOP Electrical					
2.5	Control & Instrumentation (C & I) Package					
	Total Plant & Equipment excluding taxes & Duties					
3	Initial Spares					
4	Civil Works					
4.1	Main plant/Adm. Building					
4.2	CW system					
4.3	Cooling Towers					
4.4	DM water Plant					

S. No.	Break Down	Original Cost (Rs. Lakh) as approved by the Board of Members	Actual/ Estimated Cost as incurred/to be incurred (Rs. Lakh)	Difference	Reasons for Variation (Please submit supporting computations and documents wherever applicable)	Increase in soft cost due to increase in hard cost
		Total Cost	Total Cost	Total Cost		
4.5	Clarification plant					
4.6	Chlorination plant					
4.7	Fuel handling & Storage system					
4.8	Coal Handling Plant					
4.9	MGR & Marshalling Yard					
4.10	Ash Handling System					
4.11	Ash disposal area development					
4.12	Fire fighting System					
4.13	Township & Colony					
4.14	Temp. construction & enabling works					
4.15	Road & Drainage					
	Total Civil works					
5	Construction & Pre- Commissioning Expenses					
5.1	Erection Testing and commissioning					
5.2	Site supervision					
5.3	Operator's Training					
5.4	Construction Insurance					
5.5	Tools & Plant					
5.6	Startup fuel					
	Total Construction & Pre- Commissioning Expenses					
6	Overheads					
6.1	Establishment					

S. No.	Break Down	Original Cost (Rs. Lakh) as approved by the Board of Members	Actual/ Estimated Cost as incurred/to be incurred (Rs. Lakh)	Difference	Reasons for Variation (Please submit supporting computations and documents wherever applicable)	Increase in soft cost due to increase in hard cost
		Total Cost	Total Cost	Total Cost		
6.2	Design & Engineering					
6.3	Audit & Accounts					
6.4	Contingency					
	Total Overheads					
7	Capital cost excluding IDC & FC					
8	IDC, FC, FERV & Hedging Cost					
8.1	Interest During Construction (IDC)					
8.2	Financing Charges (FC)					
8.3	Foreign Exchange Rate Variation (FERV)					
8.4	Hedging Coat					
	Total of IDC, FC,FERV & Hedging Cost					
9	Capital cost including IDC, FC, FERV & Hedging Cost					

\*Submit details of Freehold and Lease hold land

Note: Impact on account of each reason for Cost overrun should be quantified and substantiated with necessary documents and supporting workings.

(Petitioner)

## Details of time over run

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

S. No	Description of Activity/ Works/ Service	Original Schedule (As per Planning)		Actual Schedule (As per Actual)		Time Over-Run Days	Reasons for delay	Other Activity affected (Mention S. No. of activity affected)
		Start Date	Completion Date	Actual Start Date	Actual Completion Date			
1								
2								
3								
4								
5								
6								
7								
8								
9								

1. Delay on account of each reason in case of time overrun should be quantified and substantiated with necessary documents and supporting workings.
2. Indicate the activities on critical path.

(Petitioner)

Statement of Additional Capitalisation during five year before the end of useful life of the Project

Name of the Petitioner \_\_\_\_\_  
Name of the Generating Station \_\_\_\_\_  
COD \_\_\_\_\_

(Amount in. Rs Lakh)

S. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual / Projected) Un- discharged Liability included Cash basis included in col. 4				Regulations under which claimed	Justification	Impact on life extension
			Accrual basis	Liability included in col. 4	IDC in col.4				
1	2	3	4	5	(6 = 4 - 5)	7	8	9	10

Note:

1. Cost Benefit analysis for capital additions done should be submitted along with petition for approval of such schemes
2. Justification for additional capital expenditure claim for each asset should be relevant to regulations under which claim has been made and the necessity of capitalization of the asset.

(Petitioner)

DetailsofAssetsDe-capitalizedduringthe period

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

Region

State

District

(Amount in Rs. Lakh)

S. No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1						
2						
3						
4						
5						

Note: Year wise detail need to be submitted.

(Petitioner)

Reconciliation of capitalisation claimed vis-à-vis books

Name of the Petitioner \_\_\_\_\_  
Name of the Generating Station \_\_\_\_\_  
COD \_\_\_\_\_

(Amount in Rs. Lakh)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Closing Gross Block as per IND AS					
2	Add/Less: Adjustments*					
3	Closing Gross Block as per IGAAP					
4	Opening Gross Block as per IND AS					
5	Add/Less: Adjustments*					
6	Opening Gross Block as per IGAAP					
7	Total Additions as per books (G = 3 - 5)					
8	Less: Additions pertaining to other Stages (give Stage wise breakup)					
9	Net Additions pertaining to instant project/Unit/Stage					
10	Less: Exclusions (items not allowable / not claimed)					
11	Net Additional Capital Expenditure Claimed (on accrual basis)					
12	Less: Un-discharged Liabilities (as per IGAAP)					
13	Add: Discharges of un-discharged liabilities, corresponding to admitted assets/works (as per IGAAP)					
14	Net Additional Capital Expenditure Claimed (on cash basis)					

Note: (1) Form is to be certified by the Auditor and Certificate issued as per the guidelines prescribed by their governing body.

(2) Reason for exclusion of any expenditure shall be given in Clear terms. \*Break-up to be specified.

(Petitioner)

## Statement showing items/assets/works claimed under Exclusions:

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

COD \_\_\_\_\_

(Amount in Rs. Lakh)

S. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual included	Un- discharged basis Liability included in col. 3	Cash basis	IDC in col. 3	
1	2	3	4	(5 = 3 - 4)	6	7

Note: 1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed, etc.

2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and not in sending station or in both the station.

(Petitioner)



Statement of Capital cost  
(To be given for relevant dates and year wise)

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs. Lakh)

S. No.	Particulars	As on relevant date		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening Gross Block Amount as per books			
	b) Amount of IDC in A(a) above			
	c) Amount of FC in A(a) above			
	d) Amount of FERV in A(a) above			
	e) Amount of Hedging Cost in A(a) above			
	f) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)			
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)			

S. No.	Particulars	As on relevant date		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
	b) Amount of IDC in C(a) above			
	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

Note:

1. Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement of Capital Works in Progress  
(To be given for relevant dates and year wise)

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs. Lakh)

S. No.	Particulars	As on relevant date		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books			
	b) Amount of IDC in A(a) above			
	c) Amount of FC in A(a) above			
	d) Amount of FERV in A(a) above			
	e) Amount of Hedging Cost in A(a) above			
	f) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period			
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period			
	b) Amount of IDC in C(a) above			
	c) Amount of FC in C(a) above			

S. No.	Particulars	As on relevant date		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

Note:

1. Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Calculation of Interest on Normative Loan

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs Lakh)

S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Gross Normative loan - Opening						
2	Cumulative repayment of Normative loan up to previous year						
3	Net Normative loan - Opening						
4	Add: Increase due to addition during the year / period						
5	Less: Decrease due to de-capitalisation during the year / period						
6	Less: Decrease due to reversal during the year / period						
7	Add: Increase due to discharges during the year / period						
8	Net Normative loan - Closing						
9	Average Normative loan						
10	Weighted average rate of interest						
11	Interest on Loan						

(Petitioner)

Calculation of Interest on Working Capital

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs Lakh)

S. No	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Cost of Coal/Lignite <sup>1</sup>						
2	Cost of Main Secondary Fuel Oil <sup>1</sup>						
3	Fuel Cost <sup>2</sup>						
4	Liquid Fuel Stock <sup>2</sup>						
5	O & M Expenses						
6	Maintenance Spares						
7	Receivables						
8	Total Working Capital						
9	Rate of Interest						
10	Interest on Working Capital						

Note:

1. For Coal based/Lignite based generating stations

2. For Gas Turbine/Combined Cycle generating stations duly taking into account the annual mode of operation (last available) on gas fuel and liquid fuel

(Petitioner)

Incidental Expenditure up to SCOD and up to Actual/anticipated COD

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs. Lakh)

S. No.	Parameters	As on Scheduled COD	As on actual COD/anticipated COD
A	Head of Expenses:		
1	Employees' Benefits Expenses		
2	Finance Costs		
3	Water Charges		
4	Communication Expenses		
5	Power Charges		
6	Depreciation		
7	Other Office and Administrative Expenses		
8	Others (Please Specify Details)		
9	Other Pre-Operating Expenses		
...	.....		
...	.....		
B	Total Expenses		
	Less: Income from sale of tenders		
	Less: Income from guest house		
	Less: Income recovered from Contractors		
	Less: Interest on Deposits		
	.....		

(Petitioner)

PART 1  
FORM- QExpenditure under different packages up to SCOD and up to Actual/anticipated COD

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs. Lakh)

S. No.	Parameters	As on Scheduled COD	As on actual/anticipated COD
1	Package 1		
2	Package 2		
3	Package 3		
4	-----		
5	-----		
6			

(Petitioner)

PART 1  
FORM- RActual cash expenditure

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs. Lakh)

Particulars	Quarter-I	Quarter-II	Quarter-III	Quarter-n / DOCO
Expenditure towards Gross Block				
Add: Expenditure towards CWIP				
Add: Capital Advances, if any				
Less: Un-discharged liabilities (included above)				
Add/Less: Others				
Payment to contractors / suppliers towards capital assets				
Cumulative payments				

Note: If there is variation between payment and fund deployment justification need to be furnished

(Petitioner)



Statement of Liability Flow

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

Party	Asset / Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2019	Discharges (Year wise)	Reversal (Year wise)
a) For assets eligible for normal RoE						
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Summary of issue involved in the petition

1.	Petitioner:	
2.	Subject	
3.	Prayer:	
4.	Respondents	
	Name of Respondents	
	a.	
	b.	
	c.	
5.	Project Scope	
	Cost	
	Commissioning	
	Claim	
	AFC	
	Capital cost	
	Initial spare	
	NAPAF (Gen)	
	Any Specific	

TARIFF FILING FORMS (HYDRO)  
FOR DETERMINATION OF TARIFF

PART-II

Annexure

PART-II

Checklist of Forms and other information/documents for tariff filing for Hydro Stations

Form No.	Title of Tariff Filing Forms (Hydro)	Tick
FORM- 1	Summary of Tariff	
FORM -1 (I)	Statement showing claimed capital cost	
FORM -1 (II)	Statement showing Return on Equity	
FORM-2	Details of COD, Type of hydro station, Normative Annual Plant Availability Factor(NAPAF) & Other normative parameters considered for tariff calculation	
FORM-3	Salient Features of Hydroelectric Project	
FORM- 4	Details of Foreign loans	
FORM- 4A	Details of Foreign Equity	
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	
FORM-5A	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects	
FORM-5B	Break-up of Capital Cost for Hydro Power Generating Station	
FORM-5C	Break-up of Capital Cost for Plant & Equipment	
FORM-5D	Break-up of Construction/Supply/Service packages	
FORM-5Ei	In case there is cost over run	
FORM-5Eii	In case there is time over run	
FORM- 6	Financial Package upto COD	
FORM- 7	Details of Project Specific Loans	
FORM- 8	Details of Allocation of corporate loans to various projects	
FORM-9A	Statement of Additional Capitalisation after COD	
FORM 9B	Statement of Additional Capitalisation during end of the Project	
FORM 9Bi	Details of Asset De-capitalized during the period	
FORM- 9C	Statement showing reconciliation of ACE claimed with the capital additions as per books	
FORM- 9D	Statement showing items/assets/works claimed under Exclusions	
FORM- 9E	Statement of Capital cost	
FORM- 9F	Statement of Capital Woks in Progress	

Form No.	Title of Tariff Filing Forms (Hydro)	Tick
FORM- 10	Financing of Additional Capitalisation	
FORM- 11	Calculation of Depreciation on original project cost	
FORM- 12	Statement of Depreciation	
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans	
FORM- 13A	Calculation of Interest on Normative Loan	
FORM- 13B	Calculation of Interest on Working Capital	
FORM- 13C	Non-Tariff Income	
FORM- 13D	Incidental Expenditure during Construction	
FORM- 14	Draw Down Schedule for Calculation of IDC & Financing Charges	
FORM- 14A	Actual cash expenditure	
FORM- 15A	Design energy and peaking capability (month wise)- ROR with Pondage/Storage type new stations	
FORM- 15B	Design energy and MW Continuous (month wise)- ROR type stations	
FORM- 16	Statement of Liability Flow	
FORM- 17	Operation & Maintenance Expense	
FORM- 18	Details of Statutory Charges	
FORM- 19	Summary of issue involved in the petition	
Other Information/ Documents		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association ( For New Station setup by a company making tariff application for the first time to CERC)	
2	A. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures on COD of the Station for the new station & for the relevant years. B. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the existing station for the relevant years.	
3	Copies of relevant loan Agreements	

Form No.	Title of Tariff Filing Forms (Hydro)	Tick
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	
6	Copies of the BPSA/PPA with the beneficiaries, if any	
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	
8	Generating Company shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the Generating Unit wise /stage wise/Station wise/ and subsequently consolidated at Company level as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2012-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2023-24.In case of initial tariff filing, the latest available Cost Audit Report should be furnished.	
9	Any other relevant information, (Please specify)	
10.	Reconciliation with Balance sheet of any actual additional capitalization and amongst stages of a generating station	

Note 1: Electronic copy of the petition (in words format) and detailed calculation as per these formats (in excel format) and any other information submitted has to be uploaded in the e-filing website and shall also be furnished in pen drive/flash drive.

Summary of Tariff

Name of the Petitioner: \_\_\_\_\_

Name of the Generating Station: \_\_\_\_\_

Place (Region/District/State): \_\_\_\_\_

(Rs. Lakh)

S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.1	Depreciation						
1.2	Interest on Loan						
1.3	Return on Equity <sup>1</sup>						
1.4	Interest on Working Capital						
1.5	O & M Expenses						
	Total						

## Note

1. Details of calculations, considering equity as per regulation, to be furnished.

(Petitioner)

Statement showing claimed capital cost- (A+B)

Name of the Petitioner: \_\_\_\_\_  
Name of the Generating Station: \_\_\_\_\_

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	Opening Capital Cost					
2.	Add: Addition during the year / period					
3.	Less: De-capitalisation during the year / period					
4.	Less: Reversal during the year / period					
5.	Add: Discharges during the year / period					
6.	Closing Capital Cost					
7.	Average Capital Cost					

Statementshowingclaimedcapitalcost eligiblefor RoEatnormalrate (A)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	Opening Capital Cost					
2.	Add: Addition during the year / period					
3.	Less: Decapitalisation during the year / period					
4.	Less: Reversal during the year / period					
5.	Add: Discharges during the year / period					
6.	Closing Capital Cost					
7.	Average Capital Cost					

Statements showing claimed capital cost eligible for RoE at weighted average rate of interest on actual loan portfolio (B)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	Opening Capital Cost					
2.	Add: Addition during the year / period					
3.	Less: De-capitalisation during the year / period					
4.	Less: Reversal during the year / period					
5.	Add: Discharges during the year / period					
6.	Closing Capital Cost					
7.	Average Capital Cost					

(Petitioner)



PART II  
FORM-1 (II)

Statements showing Return on Equity at Normal Rate

Name of the Petitioner: \_\_\_\_\_

Name of the Generating Station: \_\_\_\_\_

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	Gross Opening Equity (Normal)					
2.	Less: Adjustment in Equity					
3.	Adjustment during the year					
4.	Net Opening Equity(Normal)					
5.	Add: Increase in equity due to addition during the year / period					
6.	Less: Decrease due to de-capitalisation during the year / period					
7.	Less: Decrease due to reversal during the year / period					
8.	Add: Increase due to discharges during the year / period					
9.	Net closing Equity (Normal)					
10.	Average Equity (Normal)					
11.	Rate of ROE					
12.	Total ROE					

(Petitioner)

Statements showing Return on Equity at Weighted Average Rate of Interest on Actual Loan Portfolio

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	Gross Opening Equity [pertaining to Proviso to Regulation 30(2)]					
2.	Less: Adjustment in Equity					
3.	Adjustment during the year					
4.	Net Opening Equity					
5.	Add: Increase in equity due to addition during the year / period					
6.	Less: Decrease due to de-capitalisation during the year / period					
7.	Less: Decrease due to reversal during the year / period					
8.	Add: Increase due to discharges during the year / period					
9.	Net closing Equity [pertaining to Proviso to Regulation 30(2)]					
10.	Average Equity [pertaining to Proviso to Regulation 30(2)]					
11.	Rate of ROE (weighted average rate of interest on actual loan portfolio)					
12.	Total ROE					

Note: 1. Adjustment of equity as per Proviso to Regulation 18(3) of 2019 Tariff Regulations.  
 2. With respect to Equity infusion, the Generating Company is required to substantiate with supporting documents such as board resolutions, balance sheet/ reconciliation statement with balance sheet.

(Petitioner)

PART II  
FORM- 2

DetailsofCOD, Type ofhydrostation, NormativeAnnualPlantAvailabilityFactor(NAPAF)&othernormativeparameters  
consideredfortariffcalculation

Name of the Petitioner: \_\_\_\_\_

Name of the Generating Station: \_\_\_\_\_

S. No.	Particulars	Unit	Existing 2018-19	Year Ending March				
				2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	Installed Capacity	MW						
2	Free power to home state	%						
3	Free Power under Local Area Development Fund (LADF)	%						
4	Date of commercial operation (actual/anticipated)							
	Unit-1							
	Unit-2							
	Unit-3							
5	Type of Station							
	a) Surface/underground							
	b) Purely ROR/ Pondage/Storage							
	c) Peaking/non-peaking							
	d) No. of hours of peaking							
	e) Overload capacity(MW) & period							
6	Type of excitation							
	a) Rotating exciters on generator							
	b) Static excitation							
7	Design Energy (Annual) <sup>1</sup>	GWh						

S. No. (1)	Particulars (2)	Unit (3)	Existing 2018-19 (4)	2019-20 (5)	2020-21 (6)	2021-22 (7)	2022-23 (8)	2023-24 (9)
8	Auxiliary Consumption including Transformation losses	%						
9	Normative Plant Availability Factor (NAPAF)							
9.1	Maintenance Spares for WC Receivables for WC	% of O&M in Months						
9.2								
9.3	Base Rate of Return on Equity	%						
9.4	Base Rate of Return on Equity on Add. Capitalization							
9.5	Tax Rate <sup>2</sup>	%						
9.6	Effective Tax Rate <sup>4</sup>							
9.7	SBI Base Rate + 350 basis points as on <sup>3</sup>	%						

1. Month wise 10day Design energy figures to be given separately with the petition.
2. Tax rate applicable to the company for the year FY2018-19 should also be furnished.
3. Mention relevant date
4. Effective tax rate is to be computed in accordance with Regulation 31 i.e. actual tax (or advance tax)/gross income, where gross income refers the profit before tax.

(Petitioner)

Salient Features of Hydroelectric Project

Name of the Petitioner: \_\_\_\_\_

Name of the Generating Station: \_\_\_\_\_

1. Location	
State / Dist.	
River	
2. Diversion Tunnel	
Size, shape	
Length (M)	
3. Dam	
Type	
Maximum dam height (M)	
4. Spillway	
Type	
Crest level of spillway (M)	
5. Reservoir	
Full Reservoir Level (FRL) (M)	
Minimum Draw Down Level (MDDL) (M)	
Live storage (MCM)	
6. De-silting Chamber	
Type	
Number and Size	
Particle size to be removed (mm)	
7. Head Race Tunnel	
Size and type	
Length (M)	
Design discharge (Cumecs)	
8. Surge Shaft	
Type	
Diameter (M)	
Height (M)	
9. Penstock/Pressure shafts	
Type	
Diameter & Length (M)	
10. Power House	
Installed capacity (No of units x MW)	
Type of turbine	
Rated Head (M)	
Rated Discharge (Cumecs)	
Head at Full Reservoir Level (M)	

Head at Minimum Draw down Level (M)	
MW Capability at FRL	
MW Capability at MDDL	
11. Tail Race Tunnel/Channel	
Diameter (M) , shape	
Length (M)	
Minimum tail water level (M)	
12. Switchyard	
Type of Switch gear	
No. of generator bays	
No. of Bus coupler bays	
No. of line bays	
Efficiency ( overall) Turbine and generator	

Note: Specify limitation on generation during specific time period(s) on account of restrictions on water use due to irrigation, drinking water, industrial, environmental considerations etc.

(Petitioner)

Exchange Rate as on 31.3.2019

[illegible]

	Scheduled repayment date 2 of principal												
	Scheduled payment date 3 of interest												
	4 At the end of Financial year												
B	In case of Hedging <sup>3</sup>												
1	At the date of hedging												
2	Period of hedging												
3	Cost of hedging												
	Currency <sup>3</sup> & so on												
A.1	At the date of Drawl <sup>2</sup>												
	Scheduled repayment date 2 of principal												
	Scheduled payment date 3 of interest												
	4 At the end of Financial year												
B	In case of Hedging <sup>3</sup>												
1	At the date of hedging												
2	Period of hedging												
3	Cost of hedging												

1. Name of the currency to be mentioned e.g. US\$, DM, etc.

2. In case of more than one drawl during the year, Exchange rate at the date of each drawl to be given

3. Furnish details of hedging, in case of more than one hedging during the year or part hedging, details of each hedging are to be given

4. Tax (such as withholding tax) details as applicable including change in rates, date from which change effective etc. must be clearly indicated.

(Petitioner)



Details of Foreign Equity

(Details only in respect of Equity infusion if any applicable to the project under petition)

Name of the Petitioner

Name of the Generating Station

Exchange Rate on date/s of infusion

S. No. (1)	Financial Year (2)	Year 1				Year 2				Year 3 and so on			
		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
		Date	Amount (Foreign Currency)	Relevant Exchange Rate	Amount (Rs. Lakh)	Date	Amount (Foreign Currency)	Relevant Exchange Rate	Amount (Rs. Lakh)	Date	Amount (Foreign Currency)	Relevant Exchange Rate	Amount (Rs. Lakh)
Currency1 <sup>1</sup>													
A.1 At the date of infusion <sup>2</sup>													
2													
3													
Currency2 <sup>1</sup>													
A.1 At the date of infusion <sup>2</sup>													
2													
3													
Currency3 <sup>1</sup>													
A.1 At the date of infusion <sup>2</sup>													
2													
3													
Currency4 <sup>1</sup> and so on													
A.1 At the date of infusion <sup>2</sup>													
2													
3													

1. Name of the currency to be mentioned e.g. US\$, DM, etc.

2. In case of equity infusion more than once during the year, Exchange rate at the date of each infusion to be given

(Petitioner)

## Abstract of Admitted Capital Cost for the existing Projects

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

	Capital Cost as admitted by CERC	
a)	Capital cost admitted as on _____ (Give reference of the relevant CERC Order with Petition No. & Date)	
b)	Foreign Component, if any (In Million US \$ or the relevant Currency)	
c)	Foreign Exchange rate considered for the admitted Capital cost (Rs Lakh)	
d)	Total Foreign Component (Rs. Lakh)	
e)	Domestic Component (Rs. Lakh.)	
f)	Hedging cost, if any, considered for the admitted Capital cost (Rs. Lakh)	
	Total Capital cost admitted (Rs. Lakh) (d+e+f)	

(Petitioner)

PART II  
FORM- 5A

Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Projects

Name of the Petitioner

Name of the Generating Station

New Projects

Capital Cost Estimates

Board of Director / Agency approving the Capital cost estimates:		
Date of approval of the Capital cost estimates:		
	Present Day Cost	Completed Cost
Price level of approved estimates	As on End of _____Qtr. of the year	As on scheduled COD of the Station
Foreign Exchange rate considered for the Capital cost estimates		
Capital Cost excluding IDC, IEDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. Lakh)		
Capital cost excluding IDC, IEDC, FC, FERV & Hedging Cost (Rs. Lakh)		
IDC, IEDC, FC, FERV & Hedging Cost		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. Lakh)		
Total IDC, IEDC, FC, FERV & Hedging Cost (Rs. Lakh)		
Rate of taxes & duties considered		
Capital cost Including IDC, IEDC, FC, FERV & Hedging Cost		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. Lakh)		
Capital cost Including IDC, IEDC & FC (Rs. Lakh)		
Schedule of Commissioning as per investment approval		
Scheduled COD of Unit-I		
Scheduled COD of Unit-II		
-----		
-----		
Scheduled COD of last Unit/Station		

Note:

1. Copy of approval letter should be enclosed
2. Details of Capital Cost are to be furnished as per FORM-5B or 5C as applicable
3. Details of IDC & Financing Charges are to be furnished as per FORM-14.

(Petitioner)

## Break-up of Capital Cost for New Hydro Power Generating Station

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs Lakh)

S. No. (1)	Break Down (2)	Original Cost as approved by Authority/Investment Approval (3)	Actual Capital Expenditure as on actual/anticipated COD (4)	Liabilities/Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)
1.0	Infrastructure Works					
1.1	Preliminary including Development					
1.2	Land*					
1.3	R&R expenditure					
1.4	Buildings					
1.5	Township					
1.6	Maintenance					
1.7	Tools & Plants					
1.8	Communication					
1.9	Environment & Ecology					
1.10	Losses on stock					
1.11	Receipt & Recoveries					
1.12	Total (Infrastructure works)					
2.0	Major Civil Works					
2.1	Dam, Intake & De-silting Chambers					

S. No. (1)	Break Down (2)	Original Cost as approved by Authority/Investment Approval (3)	Actual Capital Expenditure as on actual/anticipated COD (4)	Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)
2.2	HRT, TRT, Surge Shaft & Pressure shafts					
2.3	Power Plant civil works					
2.4	Other civil works (to be specified)					
2.5	Total (Major Civil Works)					
3.0	Hydro Mechanical equipment					
4.0	Plant & Equipment					
4.1	Initial spares of Plant & Equipment					
4.2	Total (Plant & Equipment)					
5.0	Taxes and Duties					
5.1	Custom Duty					
5.2	Other taxes & Duties					
5.3	Total Taxes & Duties					
6.0	Construction & Pre-commissioning expenses					
6.1	Erection, testing & commissioning					
6.2	Construction Insurance					

S. No. (1)	Break Down (2)	Original Cost as approved by Authority/Investment Approval (3)	Actual Capital Expenditure as on actual/anticipated COD (4)	Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)
6.3	Site supervision					
6.4	Total (Const. & Pre-commissioning)					
7.0	Overheads					
7.1	Establishment					
7.2	Design & Engineering					
7.3	Audit & Accounts					
7.4	Contingency					
7.5	Rehabilitation & Resettlement					
7.6	Total (Overheads)					
8.0	Capital Cost without IDC, FC, FERV & Hedging Cost					
9.0	IDC, FC, FERV & Hedging Cost Interest During Construction (IDC)					
9.1						
9.2	Financing Charges (FC)					
9.3	Foreign Exchange Rate Variation (FERV)					
9.4	Hedging Cost					
9.5	Notional IDC					
9.6	Total of IDC, FC, FERV & Hedging					

S. No. (1)	Break Down (2)	Original Cost as approved by Authority/Investment Approval (3)	Actual Capital Expenditure as on actual/anticipated COD (4)	Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)
	Cost					
9.7	Revenue from Infirm Power					
10.0	Capital cost including IDC, FC, FERV & Hedging Cost					

Provide details of Freehold Land, Leasehold Land and Land under reservoir separately

Note:

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over-run was beyond the control of the generating company.
2. In case of both time & cost overrun, a detailed note giving reasons of such time and cost over-run should be submitted clearly bringing out the agency responsible and whether such time and cost overrun was beyond the control of the generating company.
3. The implication on cost due to time over run, if any shall be submitted separately giving details of increase in prices in different packages from scheduled COD to Actual COD/anticipated COD, increase in IEDC from scheduled COD to actual COD/anticipated COD and increase of IDC from scheduled COD to actual anticipated COD.
4. Impact on account of each reason for Time over run on Cost of project should be quantified and substantiated with necessary documents and supporting workings.
5. A list of balance work assets/work wise including initial spare on original scope of works along with estimate shall be furnished positively.

(Petitioner)

## Break-up of Capital Cost for Plant &amp; Equipment (New Projects)

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs Lakh)

S. No.	Break Down	Original Cost as approved by Authority/Investment Approval	Cost on Actual/anticipated COD	Variation	Reasons for Variation*
(1)	(2)	(3)	(4)	(3)	(4)
		Total Cost	Total Cost		
1.0	Generator, turbine & Accessories				
1.1	Generator package				
1.2	Turbine package				
1.3	Unit control Board				
1.4	C&I package				
1.5	Bus Duct of GT connection				
1.6	Total (Generator, turbine & Accessories)				
2.0	Auxiliary Electrical Equipment				
2.1	Step up transformer				
2.2	Unit Auxiliary Transformer				
2.3	Local supply transformer				
2.4	Station transformer				



2.5	SCADA				
2.6	Switchgear, Batteries, DC dist. Board				
2.7	Telecommunication equipment				
2.8	Illumination of Dam, PH and Switchyard				
2.9	Cables & cable facilities, grounding				
2.10	Diesel generating sets				
2.11	Total (Auxiliary Elect. Equipment)				
3.0	Auxiliary equipment & services for power station				
3.1	EOT crane				
3.2	Other cranes				
3.3	Electric lifts & elevators				
3.4	Cooling water system				
3.5	Drainage & dewatering system				
3.6	Firefighting equipment				
3.7	Air conditioning, ventilation and heating				
3.8	Water supply system				
3.9	Oil handling equipment				
3.10	Workshop machines & equipment				
3.11	Total (Auxiliary equip. & services for PS)				
4.0	Switchyard package				

5.0	Initial spares for all above equipment Total Cost (Plant & Equipment) excluding IDC, FC, FERV & Hedging Cost				
6.0					
7.0	IDC, FC, FERV & Hedging Cost Interest During Construction (IDC)				
7.1					
7.2	Financing Charges (FC)				
7.3	Foreign Exchange Rate Variation (FERV)				
7.4	Hedging Cost				
7.5	Total of IDC, FC, FERV & Hedging Cost				
8.0	Total Cost (Plant & Equipment) including IDC, FC, FERV & Hedging Cost				

Note: In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost overrun was beyond the control of the generating company.

(Petitioner)

Break-up of Construction/Supply/Service packages

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs Lakh)

S. No	Name/No. of Construction / Supply / Service Package	Package A	Package B	Package C	...	Total Cost of all packages
1	Scope of works <sup>1</sup> (in line with head of cost break-ups as applicable)					
2	Whether awarded through ICB/DCB/ Departmentally/ Deposit Work					
3	No. of bids received					
4	Date of Award					
5	Date of Start of work					
6	Date of Completion of Work/Expected date of completion of work					
7	Value of Award <sup>2</sup> in (Rs. Lakh)					
8	Firm or With Escalation in prices					
9	Actual capital expenditure till the completion or up to COD whichever is earlier (Rs. Lakh)					
10	Taxes & Duties and IEDC (Rs. Lakh)					
11	IDC, FC, FERV & Hedging cost (Rs. Lakh)					
12	Sub -total (10+11+12) (Rs. Lakh)					

Note:

1. The scope of work in any package should be indicated in conformity of Capital cost break-up for the new Hydro Power Generating Station in the FORM-5B to the extent possible. For Plant & Equipment (New Projects) break down in the similar manner in the relevant heads as per FORM-5C.

2. If there is any package, which need to be shown in Indian Rupee and foreign currency(ies), the same should be shown separately along with the currency, the exchange rate and the date.

(Petitioner)

In case, there is cost over run

Name of the Petitioner

Name of the Generating Station

		Original Cost (Rs.Lakh) as approved by the Board of Members	Actual/Estimate d Cost as incurred/to be incurred(Rs. Lakh)	Difference	Reasons for Variation(Please submit supporting computations and documents wherever applicable)	Increase in soft cost due to increase in hard cost
S. No.	Break Down	Total Cost	Total Cost	Total Cost	1	2
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Cost of Land & Site Development					
1.1	Land*					
1.2	Rehabilitation & Resettlement (R&R)					
1.3	Preliminary Investigation & Site Development					
2	Plant & Equipment					
2.1	Steam Generator Island					
2.2	Turbine Generator Island					
2.3	BOP Mechanical					
2.3.1	Fuel Handling & Storage system					
2.3.2	External water supply system					
2.3.3	DM water Plant					
2.3.4	Clarification plant					

S. No.	Break Down	Original Cost (Rs.Lakh) as approved by the Board of Members	Actual/Estimate d Cost as incurred/to be incurred(Rs. Lakh)	Difference	Reasons for Variation(Please submit supporting computations and documents wherever applicable)	Increase in soft cost due to increase in hard cost
		Total Cost	Total Cost	Total Cost	1	2
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2.3.5	Chlorination Plant					
2.3.6	Fuel Handling & Storage system					
2.3.7	Ash Handling System					
2.3.8	Coal Handling Plant					
2.3.9	Rolling Stock and Locomotives					
2.3.10	MGR					
2.3.11	Air Compressor System					
2.3.12	Air Condition & Ventilation System					
2.3.13	Firefighting System					
2.3.14	HP/LP Piping					
	Total BOP Mechanical					
2.4	BOP Electrical					
2.4.1	Switch Yard Package					
2.4.2	Transformers Package					
2.4.3	Switch gear Package					
2.4.4	Cables, Cable facilities & grounding					
2.4.5	Lighting					
2.4.6	Emergency D.G. set					
	Total BOP Electrical					3

S. No.	Break Down	Original Cost (Rs.Lakh) as approved by the Board of Members	Actual/Estimate d Cost as incurred/to be incurred(Rs. Lakh)	Difference	Reasons for Variation(Please submit supporting computations and documents wherever applicable)	Increase in soft cost due to increase in hard cost
		Total Cost	Total Cost	Total Cost	1	2
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2.5	Control & Instrumentation (C & I) Package					
	Total Plant & Equipment excluding taxes & Duties					
3	Initial Spares					
4	Civil Works					
4.1	Main plant/Adm. Building					
4.2	CW system					
4.3	Cooling Towers					
4.4	DM water Plant					
4.5	Clarification plant					
4.6	Chlorination plant					
4.7	Fuel handling & Storage system					
4.8	Coal Handling Plant					
4.9	MGR &Marshalling Yard					
4.10	Ash Handling System					
4.11	Ash disposal area development					
4.12	Firefighting System					
4.13	Township & Colony					
4.14	Temp. construction &					

S. No.	Break Down	Original Cost (Rs.Lakh) as approved by the Board of Members	Actual/Estimate d Cost as incurred/to be incurred(Rs. Lakh)	Difference	Reasons for Variation(Please submit supporting computations and documents wherever applicable)	Increase in soft cost due to increase in hard cost
		Total Cost	Total Cost	Total Cost	1	2
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	enabling works					
4.15	Road & Drainage					
	Total Civil works					
5	Construction & Pre- Commissioning Expenses			3.1.1		
5.1	Erection Testing and commissioning					
5.2	Site supervision					
5.3	Operator's Training					
5.4	Construction Insurance					
5.5	Tools & Plant					
5.6	Start up fuel					
	Total Construction & Pre- Commissioning Expenses					
6	Overheads					
6.1	Establishment					
6.2	Design & Engineering					
6.3	Audit & Accounts					
6.4	Contingency					
	Total Overheads					
7	Capital cost excluding IDC & FC					

S. No.	Break Down	Original Cost (Rs.Lakh) as approved by the Board of Members	Actual/Estimate d Cost as incurred/to be incurred(Rs. Lakh)	Difference	Reasons for Variation(Please submit supporting computations and documents wherever applicable)	Increase in soft cost due to increase in hard cost
		Total Cost	Total Cost	Total Cost	1	2
(1)	(2)	(3)	(4)	(5)	(6)	(7)
8	IDC, FC, FERV &Hedging Cost					
8.1	Interest During Construction (IDC)					
8.2	Financing Charges (FC)					
8.3	Foreign Exchange Rate Variation (FERV)					
8.4	Hedging Coat					
	Total of IDC, FC,FERV & Hedging Cost					
9	Capital cost including IDC, FC, FERV & Hedging Cost					

\*Submit details of Freehold and Lease hold land

Note: Impact on account of each reason for Cost overrun should be quantified and substantiated with necessary documents and supporting workings.

(Petitioner)



In case, there is time over run

Name of the Petitioner

Name of the Generating Station

S. No (1)	Description of Activity/ Works/ Service (2)	Original Schedule (As per Planning)		Actual Schedule (As per Actual)		Time Over- Run Days (7)	Reasons for delay (8)	Other Activity effected (Mention S. No of activity affected) (9)
		Start Date (3)	Completion Date (4)	Actual Completion Date (5)	Actual Start Date (6)			
1								
2								
3								
4								
5								
6								
7								
8								
9								
....	.....							

1. Delay on account of each reason in case of time overrun should be quantified and substantiated with necessary documents and supporting workings.
2. Indicate the activities on critical path.

(Petitioner)

## Financial Package upto COD

Name of the Petitioner \_\_\_\_\_  
 Name of the Generating Station \_\_\_\_\_  
 Project Cost as on COD<sup>1</sup> \_\_\_\_\_  
 Date of Commercial Operation of the Station<sup>2</sup> \_\_\_\_\_

Particulars	Financial Package as Approved		Financial Package as on COD		As Admitted on COD	
	Currency and Amount <sup>3</sup>		Currency and Amount <sup>3</sup>		Currency and Amount <sup>3</sup>	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Loan-I	US \$	200m				
Loan-II						
Loan-III						
and so on						
Equity-						
Foreign						
Domestic						
Total Equity						
Debt : Equity Ratio						

Note:

1. Say Rs. 80 Cr. + US\$ 200 m or Rs. 1480 Cr. including US\$ 200 m at an exchange rate of US\$=Rs70
2. Date of Commercial Operation means Commercial Operation of the last unit
3. For example: US \$ 200m, etc.

(Petitioner)

Details of Project Specific Loans

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

Particulars	Package1	Package2	Package3	Package4	Package5	Package6
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Source of Loan <sup>1</sup>						
Currency <sup>2</sup>						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2019/COD 3,4,5,13,15						
Interest Type <sup>6</sup>						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest <sup>7</sup>						
Margin, if Floating Interest <sup>8</sup>						
Are there any Caps/Floor <sup>9</sup>	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
If above is yes, specify caps/floor						
Moratorium Period <sup>10</sup>						
Moratorium effective from						
Repayment Period <sup>11</sup>						
Repayment effective from						
Repayment Frequency <sup>12</sup>						
Repayment Instalment <sup>13,14</sup>						
Base Exchange Rate <sup>16</sup>						
Are foreign currency loan hedged?						
If above is yes, specify details <sup>17</sup>						

NOTE:

1. Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

2. Currency refers to currency of loan such as US Dollars (\$), DM, Yen, Indian Rupee etc.
3. Details are to be submitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.
4. Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.
5. If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the same form.
6. Interest type means whether the interest is fixed or floating.
7. Base rate means the base as PLR, MCLR, LIBOR etc. over which the margin is to be added. Documentary evidence for applicable base rate on different dates from the date of drawl may also be enclosed.
8. Margin means the points over and above the floating rate.
9. At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
10. Moratorium period refers to the period during which loan servicing liability is not required.
11. Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
12. Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half-yearly, annual, etc.
13. Where there is more than one drawl/repayment for a loan, the date & amount of each drawl/repayment may also be given separately.
14. If the repayment instalment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
15. In case of foreign loan, date of each drawl& repayment along with exchange rate at that date may be given with documentary evidence.
16. Base exchange rate means the exchange rate prevailing as on 31.03.2019 for existing assets and as on COD for the remaining assets.
17. In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
18. In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.
19. At the time of trueing up rate of interest with relevant reset date (if any) to be furnished separately.
20. At the time of trueing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.
21. Call or put option, if any exercised by the generating company for refinancing of loan.
22. Copy of loan agreement.

(Petitioner)

Details of Allocation of corporate loan to various projects

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Source of Loan <sup>1</sup>						
Currency <sup>2</sup>						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2019/COD 3,4,5,13,15						
Interest Type <sup>6</sup>						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest <sup>7</sup>						
Margin, if Floating Interest <sup>8</sup>						
Are there any Caps/Floor <sup>9</sup>	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	
If above is yes, specify caps/floor						
Moratorium Period <sup>10</sup>						
Moratorium effective from						
Repayment Period <sup>11</sup>						
Repayment effective from						
Repayment Frequency <sup>12</sup>						
Repayment Instalment <sup>13,14</sup>						
Base Exchange Rate <sup>16</sup>						
Are foreign currency loan hedged?						
If above is yes, specify details <sup>17</sup>						
	Distribution of loan packages to various projects					
Name of the Projects						Total
Project 1						
Project 2						
Project 3 and so on						

**Note:**

1. Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.
2. Currency refers to currency of loan such as US Dollars (\$), DM, Yen, Indian Rupee etc.

3. Details are to be submitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.
4. Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.
5. If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the same form.
6. Interest type means whether the interest is fixed or floating.
7. Base rate means the base as PLR, MCLR, LIBOR etc. over which the margin is to be added. Documentary evidence for applicable base rate on different dates from the date of drawl may also be enclosed.
8. Margin means the points over and above the floating rate.
9. At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
10. Moratorium period refers to the period during which loan servicing liability is not required.
11. Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
12. Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half-yearly, annual, etc.
13. Where there is more than one drawl/repayment for a loan, the date & amount of each drawl/repayment may also be given separately.
14. If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
15. In case of foreign loan, date of each drawl & repayment along with exchange rate at that date may be given with documentary evidence.
16. Base exchange rate means the exchange rate prevailing as on 31.03.2019 for existing assets and as on COD for the remaining assets.
17. In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
18. In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.
19. At the time of trueing up rate of interest with relevant reset date (if any) to be furnished separately.
20. At the time of trueing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.
21. Call or put option, if any exercised by the generating company for refinancing of loan.
22. Copy of loan agreement.

(Petitioner)

Yearwise Statement of Additional Capitalisation after COD

Name of the Petitioner \_\_\_\_\_  
Name of the Generating Station \_\_\_\_\_  
COD or Financial Year \_\_\_\_\_

S. No. (1)	Head of Work / Equipment (2)	ACE Claimed (Actual / Projected)				Regulations under which claimed (7)	Justification (8)	Admitted Cost by the Commission, if any (9)
		Accrual basis (3)	Un-discharged Liability included in col. 3 (4)	Cash basis (5=3-4)	IDC included in col. 3 (6)			

1. In case the project has been completed and cost has already been admitted under any tariff notification(s) in the past, fill column 9 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority) (Enclose copy of the tariff Order)
2. The above information needs to be furnished separately for each year / period of tariff period 2019-24.
3. In case of de-capitalisation of assets, separate details to be furnished at column 1, 2, 3 and 4. Further, the original book value and year of capitalisation of such asset to be furnished at column 8. Where de-caps are on estimated basis the same to be shown separately.
4. Where any asset is rendered unserviceable, the same shall be treated as de-capitalized during that year and original value of such asset to be shown at col. 3. In addition, impaired value if any, year of its capitalisation to be mentioned at column 8.
5. Justification against each asset of capitalization should be specific to regulations under which claim has been made and the necessity of capitalization of that particular asset.

Note:

1. Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and the benefits accruing to the beneficiaries.
2. In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated separately. e.g. Rotor - 50 Crs. Initial spares- 5 Crs.

(Petitioner)

Statement of Additional Capitalisation during end of the Project

Name of the Petitioner \_\_\_\_\_  
 Name of the Generating Station \_\_\_\_\_  
 COD \_\_\_\_\_

S. No.	Year	Work/Equipment added during last five years of useful life of each Unit/Station	Amount capitalized /Proposed to be capitalized (Rs Lakh)	Justification for capitalisation proposed	Impact on life extension
(1)	(2)	(3)	(4)	(5)	(6)
1					
2					
3					
4					
5					

## Note:

1. Cost Benefit analysis for capital additions done should be submitted along with petition for approval of such schemes
2. Justification for additional capital expenditure claim for each asset should be relevant to regulation under which claim and the necessity of capitalization of the asset

(Petitioner)



DetailsofAssetsDe-capitalizedduringthe period

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

Region

State

District

S. No.	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalized	Year Put to use	Depreciation recovered till date of de-capitalization
(1)	(2)	(3)	(4)	(5)	(6)
1					
2					
3					
4					
5					

Note: Year wise detail need to be submitted.

(Petitioner)

Statement showing reconciliation of ACE claimed with the capital additions as per books

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

COD \_\_\_\_\_

(Amount in Rs. Lakh)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Closing Gross Block as per IND AS					
2	Add/Less: Adjustments					
3	Closing Gross Block as per IGAAP					
4	Opening Gross Block as per IND AS					
5	Add/Less: Adjustments					
6	Opening Gross Block as per IGAAP					
7	Total Additions as per books (G= 3 - 5)					
8	Less: Additions pertaining to other Stages (give Stage wise breakup)					
9	Net Additions pertaining to instant project/Unit/Stage					
10	Less: Exclusions (items not allowable / not claimed)					
11	Net Additional Capital Expenditure Claimed (on accrual basis)					
12	Less: Un-discharged Liabilities					
13	Add: Discharges of un-discharged liabilities, corresponding to admitted assets/works					
14	Net Additional Capital Expenditure Claimed (on cash basis)					

Note: Reason for exclusion of any expenditure shall be given in clear terms.

(Petitioner)

Statement showing items/assets/works claimed under Exclusions:

Name of the Petitioner \_\_\_\_\_  
Name of the Generating Station \_\_\_\_\_  
COD \_\_\_\_\_

S. No.  (1)	Head of Work / Equipment  (2)	ACE Claimed under Exclusion				Justification (7)
		Un-discharged included in col. 3	Accrual basis Liability included	Cash basis in col. 3	IDC	
		(3)	(4)	(5=3-4)	(6)	

Note: 1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed, etc.

2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and not in sending station or in both the station.

(Petitioner)

Statement of Capital cost  
(To be submitted for relevant dates and year wise)

Name of the Petitioner \_\_\_\_\_  
Name of the Generating Station \_\_\_\_\_

S. No.	Particulars	As on relevant date.		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
(1)	(2)	(3)	(4)	(5)
A	a) Opening Gross Block Amount as per books			
	b) Amount of IDC in A(a) above			
	c) Amount of FC in A(a) above			
	d) Amount of FERV in A(a) above			
	e) Amount of Hedging Cost in A(a) above			
	f) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)			
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)			
	b) Amount of IDC in C(a) above			

S. No.	Particulars	As on relevant date.		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
(1)	(2)	(3)	(4)	(5)
	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

Note:

1. Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement of Capital Works in Progress  
(To be submitted for relevant dates and year wise)

Name of the Petitioner \_\_\_\_\_  
Name of the Generating Station \_\_\_\_\_

(Amount in Rs. Lakh)

S. No.	Particulars	As on relevant date.		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
(1)	(2)	(3)	(4)	(5)
A	a) Opening CWIP as per books			
	b) Amount of IDC in A(a) above			
	c) Amount of FC in A(a) above			
	d) Amount of FERV in A(a) above			
	e) Amount of Hedging Cost in A(a) above			
	f) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period			
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period			
	b) Amount of IDC in C(a) above			
	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			

S. No.	Particulars	As on relevant date.		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
(1)	(2)	(3)	(4)	(5)
D	a) Deletion in CWIP during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

Note:

1. Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Financing of Additional Capitalisation

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

Date of Commercial Operation \_\_\_\_\_

(Amount in Rs. Lakh)

Financial Year (Starting from COD) <sup>1</sup>	Actual					Admitted				
	Year 1	Year 2	Year 3	Year 4	Year 5 & So on	Year 1	Year 2	Year 3	Year 4	Year 5 & So on
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Amount Capitalized in Work/Equipment										
Financing Details										
Loan-1										
Loan-2										
Loan-3 and so on										
Total Loan <sup>2</sup>										
Equity										
Internal Resources										
Others (Pl. specify)										
Total										

Note:

1. Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent financial years respectively.
2. Loan details for meeting the additional capitalisation requirement should be given as per FORM-7 or 8 whichever is relevant.

(Petitioner)



PART II  
FORM- 11

Calculation of Depreciation

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs. Lakh)

S. No.	Name of the Assets <sup>1</sup>	Gross Block as on 31.03.2019 or as on COD, whichever is later and subsequently for each year thereafter upto 31.03.2024	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 31.03.2024
(1)	(2)	(3)	(4)	(5= Col.3 X Col.4)
1	Land*			
2	Building			
3	and so on			
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
	TOTAL			
	Weighted Average Rate of Depreciation (%)			

\*Provide details of Freehold Land, Leasehold Land and Land under reservoir separately

Note: 1. Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification.

(Petitioner)

PART II  
FORM- 12Statement of Depreciation

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs. Lakh)

S. No.	Particulars	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	Opening Capital Cost						
2.	Closing Capital Cost						
3.	Average Capital Cost						
4.	Freehold land*						
5.	Rate of depreciation						
6.	Depreciable value						
7.	Balance useful life at the beginning of the period						
8.	Remaining depreciable value						
9.	Depreciation (for the period)						
10.	Depreciation (annualized)						
11.	Cumulative depreciation at the end of the period						
12.	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009						
13.	Less: Cumulative depreciation adjustment on account of de-capitalisation						
14.	Net Cumulative depreciation at the end of the period						

1. In case of details of FERV and AAD, give information for the applicable period.

(Petitioner)

PART II  
FORM- 13

Calculation of Weighted Average Rate of Interest on Actual Loans<sup>1</sup>

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs Lakh)

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Loan-1						
Gross loan - Opening						
Cumulative repayments of Loans upto previous year						
Net loan - Opening						
Add: Drawl(s) during the Year						
Less: Repayment (s) of Loans during the year						
Net loan - Closing						
Average Net Loan						
Rate of Interest on Loan on annual basis						
Interest on loan						
Loan-2						
Gross loan - Opening						
Cumulative repayments of Loans upto previous year						
Net loan - Opening						
Add: Drawl(s) during the Year						
Less: Repayment (s) of Loans during the year						
Net loan - Closing						
Average Net Loan						
Rate of Interest on Loan on annual basis						
Interest on loan						
Loan-3 and so on						

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Gross loan - Opening						
Cumulative repayments of Loans upto previous year						
Net loan - Opening						
Add: Drawl(s) during the Year						
Less: Repayment (s) of Loans during the year						
Net loan - Closing						
Average Net Loan						
Rate of Interest on Loan on annual basis						
Interest on loan						
Total Loan						
Gross loan - Opening						
Cumulative repayments of Loans upto previous year						
Net loan - Opening						
Add: Drawl(s) during the Year						
Less: Repayment (s) of Loans during the year						
Net loan - Closing						
Average Net Loan						
Interest on loan						
Weighted average Rate of Interest on Loans						

Note:

1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculation in Original currency is also to be furnished separately in the same form.

(Petitioner)

## Calculation of Interest on Normative Loan

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs Lakh)

S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	Gross Normative loan – Opening						
2.	Cumulative repayment of Normative loan upto previous year						
3.	Net Normative loan – Opening						
4.	Add: Increase due to addition during the year / period						
5.	Less: Decrease due to de-capitalisation during the year / period						
6.	Less: Decrease due to reversal during the year / period						
7.	Add: Increase due to discharges during the year / period						
8.	Net Normative loan - Closing						
9.	Average Normative loan						
10.	Weighted average rate of interest						
11.	Interest on Loan						

(Petitioner)

Calculation of Interest on Working Capital

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs Lakh)

S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	O & M Expenses						
2	Maintenance Spares						
3	Receivables						
4	Total Working Capital						
5	Rate of Interest						
6	Interest on Working Capital						

(Petitioner)

Non-Tariff Income

Name of the Hydro Asset: \_\_\_\_\_

S.No.	Parameters	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	Income from rent of land or buildings						
2.	Income from sale of scrap						
3.	Income from advertisements						

Note: To be submitted at the time of truing up

(Petitioner)

Incidental Expenditure during Construction

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs Lakh)

S. No.	Parameters	Upto Schedule COD	Upto Actual/Anticipat ed COD
(1)	(2)	(3)	(4)
A	Expenses:		
1.	Employees' Benefits Expenses		
2.	Finance Costs		
3.	Water Charges		
4.	Communication Expenses		
5.	Power Charges		
6.	Depreciation		
7.	Other Office and Administrative Expenses		
8.	Others (Please Specify Details)		
9.	Other pre-Operating Expenses		
	.....		
B	Total Expenses		
10.	Less: Income from sale of tenders		
11.	Less: Income from guest house		
12.	Less: Income recovered from Contractors		
13.	Less: Interest on Deposits		
	.....		

(Petitioner)





S. No.	Draw Down	Quarter 1			Quarter 2			Quarter n (COD)		
	Particulars	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee (Rs Lakh)	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee (Rs Lakh)	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee (Rs Lakh)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	Financing charges									
	Foreign Exchange Rate Variation									
	Hedging Cost									
1.1.4	--									
	--									
	--									
1.1	Total Foreign Loans									
	Draw down Amount									
	IDC									
	Financing charges									
	Foreign Exchange Rate Variation									
	Hedging Cost									
1.2	Indian Loans									
1.2.1	Indian Loan 1									
	Draw down Amount	--	--		--	--		--	--	
	IDC	--	--		--	--		--	--	
	Financing charges	--	--		--	--		--	--	
1.2.2	Indian Loan 2									
	Draw down Amount	--	--		--	--		--	--	
	IDC	--	--		--	--		--	--	
	Financing charges	--	--		--	--		--	--	



		--	--	--	--	--	--	--		
S. No.	Draw Down	Quarter 1			Quarter 2			Quarter n (COD)		
	Particulars	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee (Rs Lakh)	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee (Rs Lakh)	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee (Rs Lakh)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	Total equity deployed									

**Note:**

1. Drawl of debt and equity shall be on pari-passu basis quarter wise to meet the commissioning schedule. Drawl of higher equity in the beginning is permissible
2. Applicable interest rates including reset dates used for above computation may be furnished separately
3. In case of multi-unit project details of capitalisation ratio used to be furnished.
4. Detailed calculation of IDC (Actual drawl and repayment dates and amount, rates of interest, etc.) should be furnished.

(Petitioner)

PART II  
FORM- 14A

ActualCash Expenditure

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in Rs Lakh)

Particulars	Quarter-I	Quarter-II	Quarter-III	Quarter-n (DOCO)
(1)	(2)	(3)	(4)	(5)
Expenditure towards Gross Block				
Add: Expenditure towards CWIP				
Add: Capital Advances, if any				
Less: Un-discharged liabilities (included above)				
Add/Less: Others				
Payment to contractors / suppliers towards capital assets				
Cumulative payments				

Note: If there is variation between payment and fund deployment justification need to be furnished

(Petitioner)

Designenergyand peakingcapability(monthwise)- ROR withPondage/Storage type new stations

Name of the Petitioner \_\_\_\_\_  
 Name of the Generating Station \_\_\_\_\_

Generating Company.....			
Name of Hydro-Electric Generating Station: .....			
Installed Capacity: No of Units X MW=			
Month		Design Energy* (MUs)	Designed Peaking Capability (MW)*
April	I		
	II		
	III		
May	I		
	II		
	III		
June	I		
	II		
	III		
July	I		
	II		
	III		
August	I		
	II		
	III		
September	I		
	II		
	III		

October	I		
	II		
	III		
November	I		
	II		
	III		
December	I		
	II		
	III		
January	I		
	II		
	III		
February	I		
	II		
	III		
March	I		
	II		
	III		
Total			
*As per DPR/TEC of CEA dated.....			
Note :			
Specify the number of peaking hours for which station has been designed.			

(Petitioner)

Designenergyand MW Continuous(monthwise) -RORtypestations

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

Generating Company.....			
Name of Hydro-Electric Generating Station: .....			
Installed Capacity: No of units X MW=			
Month		Design Energy* (MUs)	MW continuous*
April	I		
	II		
	III		
May	I		
	II		
	III		
June	I		
	II		
	III		
July	I		
	II		
	III		
August	I		
	II		
	III		
September	I		
	II		
	III		
October	I		
	II		
	III		

November	I		
	II		
	III		
December	I		
	II		
	III		
January	I		
	II		
	III		
February	I		
	II		
	III		
March	I		
	II		
	III		
Total			
*As per DPR/TEC of CEA dated.....			

(Petitioner)

## Statement of Liability Flow

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

Part y	Asset / Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.201 9	Discharges (Year wise)	Reversa l (Year wise)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
a) For assets eligible for normal RoE						
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)



Operation and Maintenance Expense

In case of the hydro generating stations declared under commercial operation on or after 1.4.2019

Total capital expenditure up to cutoff date (a)	
R&R Expenditure (b)	
IDC & IEDC (c)	
Capital cost considered for O&M expense(d)= (a)-(b)-(c)	
First year annualize O&M expenses @ 3.50% of above (e) = 3.50% of (d)	
O&M expense for next year @ 4.77% of above (f) = 4.77% of (e)	
Additional O&M expenses due to 7 <sup>th</sup> Pay Commission Wage Revision	
Additional O&M expenses due to Minimum Wage Revision	
Additional O&M expenses due to Goods and Services Tax (GST)	

Note: Additional O&M expenses with supporting documents and computations to be provided for respective years of Tariff Period.

(Petitioner)

Details of Statutory Charges (If applicable)

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

Particulars	Unit Rate	No of Units	Amount Claimed
(1)	(2)	(3)	(4)
Electricity Duty			
Water Cess			
.....			

(Petitioner)

## Summary of issue involved in the petition

1.	Petitioner:		
2.	Subject		
3.	Prayer: (1)... (2)... (3)... ..		
4.	Respondents		
Name of Respondents:			
a.			
b.			
c.			
5.	Project Scope	IC DE FEHS AUX NAPAF	
Cost		Sanction Cost Latest RCE	
Commissioning		Unit/Station COD	
Claim			
AFC			
Capital cost			
Initial spare			
NAPAF			
Design			
Energy			
Any Specific			

PD-61

**KARNATAKA ELECTRICITY REGULATORY COMMISSION**

No. 16 C-1, Miller Tank Bed Area, Vasanth Nagar, Bengaluru- 560 052

**NOTIFICATION**

No: CT/02/15/30 Bengaluru, Dated: 05.04.2019

In exercise of the powers conferred under Sub-Section (1) of Section 27 of the Energy Conservation Act, 2001 (Central Act No. 52 of 2001) (EC Act, 2001), the Karnataka Electricity Regulatory Commission has appointed Sri. H. M. Manjunatha, Hon'ble Member of the Commission as an 'Adjudicating Officer' for the purpose of adjudging under Section 26 of the EC Act, 2001, in such manner as may be prescribed by the Central Government.

Approved by the Commission  
for Karnataka Electricity Regulatory Commission

**SECRETARY**

PD-62



### ಕೃಷಿ ಮಾರಾಟ ಇಲಾಖೆ

ಕೃಷಿ ಮಾರಾಟ ನಿರ್ದೇಶಕರ ಕಛೇರಿ, ನಂ.16, 2ನೇ ರಾಜಭವನ ರಸ್ತೆ, ಪಿ.ಬಿ.ನಂ.5309, ಬೆಂಗಳೂರು-560001  
ಇ-ಮೇಲ್: bngdam@kar.nic.in ದೂರವಾಣಿ ಸಂ: 080-22867192, ಫ್ಯಾಕ್ಸ್ - 080-22864375

ಸಂಖ್ಯೆ: ಕೃಮಾಇ/ನಿಯವಿ/ಮುಮಾಪ್ರಾಂ/262/18-19

ದಿನಾಂಕ: 24-08-2021

#### ಅಧಿಸೂಚನೆ

ಕರ್ನಾಟಕ ಕೃಷಿ ಉತ್ಪನ್ನ ಮಾರುಕಟ್ಟೆ ವ್ಯವಹಾರ (ನಿಯಂತ್ರಣ ಮತ್ತು ಅಭಿವೃದ್ಧಿ) ಅಧಿನಿಯಮ, 1966ರ ಕಲಂ 145(1)ರಲ್ಲಿನ ಅಧಿಕಾರವನ್ನು ಚಲಾಯಿಸಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರವು ಅಧಿಸೂಚನೆ ಸಂ:ಸಿಒ/22/ಎಂಆರ್‌ಇ/ 2021, ದಿನಾಂಕ: 28-07-2021ರ ಮೂಲಕ ಕೊಳ್ಳೇಗಾಲ ಕೃಷಿ ಉತ್ಪನ್ನ ಮಾರುಕಟ್ಟೆ ಸಮಿತಿಯ ಮಾರುಕಟ್ಟೆ ಕ್ಷೇತ್ರವನ್ನು ವಿಭಜಿಸಿ ಕೊಳ್ಳೇಗಾಲ ತಾಲ್ಲೂಕನ್ನು ಒಳಗೊಂಡ ಮಾರುಕಟ್ಟೆ ಕ್ಷೇತ್ರಕ್ಕೆ ಕೊಳ್ಳೇಗಾಲ ಕೃಷಿ ಉತ್ಪನ್ನ ಮಾರುಕಟ್ಟೆ ಸಮಿತಿಯನ್ನು ಹಾಗೂ ಹನೂರು ತಾಲ್ಲೂಕನ್ನು ಒಳಗೊಂಡ ಮಾರುಕಟ್ಟೆ ಕ್ಷೇತ್ರಕ್ಕೆ ಹನೂರು ಕೃಷಿ ಉತ್ಪನ್ನ ಮಾರುಕಟ್ಟೆ ಸಮಿತಿಯನ್ನು ಸ್ಥಾಪಿಸಿರುತ್ತದೆ.

ಮತ್ತು ಆ ಕಾರಣ, ಕರ್ನಾಟಕ ಕೃಷಿ ಉತ್ಪನ್ನ ಮಾರುಕಟ್ಟೆ ವ್ಯವಹಾರ (ನಿಯಂತ್ರಣ ಮತ್ತು ಅಭಿವೃದ್ಧಿ) ಅಧಿನಿಯಮ, 1966ರ ಕಲಂ 145ರ ಉಪ ಪ್ರಕರಣ (2)(ಎ) ಮತ್ತು ಪ್ರಕರಣ 6ರ ಉಪ ಪ್ರಕರಣ (2)ರಲ್ಲಿನ ಅಧಿಕಾರವನ್ನು ಚಲಾಯಿಸಿ ಹಾಗೂ ಅಧಿಸೂಚನೆ ಸಂ: ಕೃಮಾಇ/11/ನಿಯವಿ/93(i), ದಿನಾಂಕ:06-04-1994 ಮತ್ತು ಅಧಿಸೂಚನೆ ಸಂ:ಕೃಮಾಇ/11/ನಿಯವಿ/99, ದಿನಾಂಕ:19-03-1999ನ್ನು ಮಾರ್ಪಡಿಸಿ ಕರ್ನಾಟಕದಲ್ಲಿ ಕೃಷಿ ಮಾರಾಟ ಇಲಾಖೆಯ ನಿರ್ದೇಶಕನಾಗಿರುವ ಕಠಿಣಗೌಡ ಆದ ನಾನು, ವಿಭಜಿತ ಹನೂರು ಕೃಷಿ ಉತ್ಪನ್ನ ಮಾರುಕಟ್ಟೆ ಸಮಿತಿಯ ಮಾರುಕಟ್ಟೆ ಕ್ಷೇತ್ರದಲ್ಲಿ ಅಧಿಸೂಚಿಸಲ್ಪಟ್ಟಿರುವ ಈ ಕೆಳಕಂಡ ಕೃಷಿ ಉತ್ಪನ್ನಗಳ ಮಾರಾಟ ನಿಯಂತ್ರಣಕ್ಕಾಗಿ ಹನೂರು ಪುರಸಭಾ ಪರಿಮಿತಿಯೊಳಗಿನ ಪ್ರದೇಶವನ್ನು "ಮಾರುಕಟ್ಟೆ" ಎಂದು ಮತ್ತು ಈ ಕೆಳಗಿನ ಅನುಸೂಚಿ-ಎ ರಲ್ಲಿ ನಿರ್ದಿಷ್ಟಪಡಿಸಿರುವ ಸ್ಥಳವನ್ನು "ಮಾರುಕಟ್ಟೆ ಪ್ರಾಂಗಣ" ಎಂದು ಹಾಗೂ ಒಡೆಯರ್ ಪಾಳ್ಯ ಗ್ರಾಮದ ಪರಿಮಿತಿಯೊಳಗಿನ ಪ್ರದೇಶವನ್ನು "ಉಪ ಮಾರುಕಟ್ಟೆ" ಎಂದು ಮತ್ತು ಅನುಸೂಚಿ-ಬಿ ರಲ್ಲಿ ನಿರ್ದಿಷ್ಟಪಡಿಸಿದ ಸ್ಥಳವನ್ನು "ಉಪ ಮಾರುಕಟ್ಟೆ ಪ್ರಾಂಗಣ" ಎಂದು ಈ ಮೂಲಕ ಘೋಷಿಸಿದ್ದೇನೆ.

#### ಅಧಿಸೂಚಿತ ಕೃಷಿ ಉತ್ಪನ್ನಗಳು

(1) ಜಾನುವಾರುಗಳು, (2) ಮೇಕೆಗಳು, (3) ಕುರಿಗಳು, (4) ಹತ್ತಿ(ಬೀಜ ತೆಗೆದ ಮತ್ತು ತೆಗೆಯದ), (5) ಎಲ್ಲಾ ಹೂಗಳು (6) ಸಜ್ಜೆ, (7) ಜವೆ ಗೋಧಿ, (8) ಜೋಳ, (9) ಕಂಬು, (10) ಮೆಕ್ಕೆಜೋಳ, (11) ನವಣೆ, (12) ಭತ್ತ, (13) ರಾಗಿ, (14) ಅಕ್ಕಿ, (15) ಸಾಮೆ(ಸಾವೆ), (16) ಗೋಧಿ, (17) ಅಂಟುವಾಳ, (18) ಬೊಂಬು, (19) ಬೆತ್ತ, (20) ಹಿಪ್ಪೆಬೀಜ, (21) ಹೊಂಗೆಬೀಜ, (22) ಬೇವಿನಬೀಜ, (23) ಸಿಗೇಕಾಯಿ, (24) ಹುಣಸೇಹಣ್ಣು, (25) ಹುಣಸೇಬೀಜ, (26) ಸೇಬು, (27) ಬಾಳೆಹಣ್ಣು, (28) ಬೋರೇಹಣ್ಣು, (29) ಹುಳಿಹಣ್ಣುಗಳು, (30) ಚಕ್ಕೋತನಹಣ್ಣು, (31) ಪೇರಳೆಹಣ್ಣು (ಸೀಬೆಹಣ್ಣು), (32) ದ್ರಾಕ್ಷಿ, (33) ಹಲಸಿನಹಣ್ಣು, (34) ಜಂಬು ನೇರಳೆಹಣ್ಣು, (35) ನಿಂಬೆಹಣ್ಣು (36) ಕರಬೂಜ, (37) ಮಾವಿನಹಣ್ಣು, (38) ಮೂಸಂಬಿ, (39) ಮರಸೇಬು, (40) ಪೈನಾಪಲ್ (ಅನಾನಸ್), (41) ಪಪಾಯ ಹಣ್ಣು (ಪರಂಗಿಹಣ್ಣು), (42) ದಾಳಿಂಬೆಹಣ್ಣು, (43) ಸಪೋಟಾ (44) ಸಿದ್ಧೋಟ, (45) ಕಿತ್ತಳೆ, (46) ಕಲ್ಲಂಗಡಿ, (47). ನೆಲಗಡಲೆ(ಶೇಂಗಾ) (ಕಾಯಿ ಮತ್ತು ಬೀಜ), (48) ಹರಳುಬೀಜ, (49) ಹತ್ತಿಬೀಜ, (50) ಅಗಸೆಬೀಜ, (51) ಸಾಸಿವೆ, (52) ಹುಚ್ಚೆಳ್ಳು, (53) ಕುಸುಬೆ (54) ಎಳ್ಳು, (55) ಸೂರ್ಯಕಾಂತಿ ಬೀಜ, (56) ಸೋಯಾಬಿನ್, (57) ಅಡಿಕೆ, (58) ಗೋಡಂಬಿ ಬೀಜ, (59) ಒಣ ಮೆಣಸಿನಕಾಯಿ (60) ತೆಂಗಿನಕಾಯಿ, (61) ಕೊಬ್ಬರಿ, (62) ಕೊತ್ತಂಬರಿ ಬೀಜ (ದನಿಯಾ), (63) ಬೆಳ್ಳುಳ್ಳಿ, (64) ಶುಂಠಿ, (65) ಮೆಂತ್ಯ, (66) ಕಾಳುಮೆಣಸು, (67) ಅರಿಶಿನ, (68) ಅಲಸಂದೆ (ಇಡೀ ಮತ್ತು ಒಡೆದ), (69) ಅವರೆ(ಇಡೀ ಮತ್ತು ಒಡೆದ), (70) ಕಡಲೆ(ಇಡೀ ಮತ್ತು ಒಡೆದ), (71) ಉದ್ದು(ಇಡೀ ಮತ್ತು ಒಡೆದ), (72) ಬುಲ್ಬರ್ (ಇಡೀ ಮತ್ತು ಒಡೆದ), (73) ಹೆಸರು (ಇಡೀ ಮತ್ತು ಒಡೆದ), (74) ಹುರುಳಿ, (75) ಲಾಕ್ (ಇಡೀ ಮತ್ತು ಒಡೆದ), (76) ಮಡಿಕೆ(ಮಟಕಿ) (ಇಡೀ ಮತ್ತು ಒಡೆದ), (77) ಚೆನ್ನಂಗಿ(ಮಸೂರಿ) (ಇಡೀ ಮತ್ತು ಒಡೆದ), (78) ಬಟಾಣಿ, (79) ತೊಗರಿ (ಇಡೀ ಮತ್ತು ಒಡೆದ , (80) ಮೋತ್ (ಇಡೀ ಮತ್ತು ಒಡೆದ), (81) ಎಲ್ಲಾ ತರಕಾರಿಗಳು (ಸೊಪ್ಪುಗಳು ಸೇರಿಸಿ), (ಗರ್ಕಿನ್ ಹೊರತುಪಡಿಸಿ), (82) ಕಾಯಿಗಳು, (83) ಹಸಿರು ಮೆಣಸಿನಕಾಯಿ, (84) ಈರುಳ್ಳಿ, (85) ಆಲೂಗಡ್ಡೆ, (86) ಸುವರ್ಣಗಡ್ಡೆ, (87) ಸಿಹಿ ಗೆಣಸು, (88) ಟೊಮ್ಯಾಟೋ, (89) ವೀಳ್ಯದೆಲೆ, (90) ಬೆಲ್ಲ, (91) ತೆಂಗಿನಕಡ್ಡಿ, (92) ಒಣದ್ರಾಕ್ಷಿ.

**ಅನುಸೂಚಿ- ಎ**

ಹನೂರು ಪುರಸಭಾ ಪರಿಮಿತಿಯೊಳಗಿನ ಮೋಜಣಿ ಸಂಖ್ಯೆ: 255/1, 255/2, 255/3, 255/4, 212/ಎ1 ಮತ್ತು 256/2 ರಲ್ಲಿನ ಒಟ್ಟು 11.31 ಎಕರೆ ಪ್ರದೇಶದ ಈ ಕೆಳಗಿನ ಸೀಮಾಬದ್ಧ ಸ್ಥಳ:

ಪೂರ್ವಕ್ಕೆ : ಸರ್ವೆ ನಂ.213/1 ಹಾಗೂ 212ಎ3 ರ ಜಮೀನು

ಪಶ್ಚಿಮಕ್ಕೆ : ಸರ್ವೆ ನಂ. 256/2ರ ಉಳಿಕೆ ಜಮೀನು ಹಾಗೂ ಹಳ್ಳ

ಉತ್ತರಕ್ಕೆ : ರಾಜ್ಯ ಹೆದ್ದಾರಿ 79 (ಶ್ರೀ ಮಲ್ಲ ಮಹದೇಶ್ವರ ಕ್ಷೇತ್ರಕ್ಕೆ ಸಂಪರ್ಕ ಕಲ್ಪಿಸುವ ರಾಜ್ಯ ಹೆದ್ದಾರಿ)

ದಕ್ಷಿಣಕ್ಕೆ : ಸರ್ವೆ ನಂ.212/ಎ1ರ ಉಳಿಕೆ ಹಾಗೂ 260/1ರ ಜಮೀನು (ಹನೂರು ಪುರಸಭೆ ವ್ಯಾಪ್ತಿಯ 13ನೇ ವಾರ್ಡ್)

**ಅನುಸೂಚಿ- ಬಿ**

ಹುತ್ತೂರು ಗ್ರಾಮ ಪಂಚಾಯತಿ ವ್ಯಾಪ್ತಿಯ ಒಡೆಯರ್ ಪಾಳ್ಯ ಗ್ರಾಮದ ಪರಿಮಿತಿಯೊಳಗೆ ಹಾಲಿ ವ್ಯಾಪಾರ ನಡೆಯುತ್ತಿರುವ ಈ ಕೆಳಗಿನ ಸೀಮಾಬದ್ಧ ಸ್ಥಳ:

ಪೂರ್ವಕ್ಕೆ : ವಿ.ಎಸ್. ದೊಡ್ಡಿ ಮತ್ತು ಹುತ್ತೂರು ರಸ್ತೆ

ಪಶ್ಚಿಮಕ್ಕೆ : ಮೋಜಣಿ ಸಂ: 238ರ ಕೆ.ಬಿ. ಗುರುಸ್ವಾಮಿಯವರ ಜಮೀನು

ಉತ್ತರಕ್ಕೆ : ಮೋಜಣಿ ಸಂ: 241ರ ಶ್ರೀ ಮಹಾದೇವಪ್ಪ ಶಾಂತಮಲ್ಲಪ್ಪ ನವರ ಜಮೀನು

ದಕ್ಷಿಣಕ್ಕೆ : ಮೋಜಣಿ ಸಂ: 218ರ ಗುಳ್ಳದ ಬಯಲು - ಸರ್ಕಾರಿ ಆಸ್ಪತ್ರೆ ಹಾಗೂ ಹಾಸ್ಪಿಟಲ್ ಕಟ್ಟಡಗಳು.

(ಕರೀಗೌಡ)  
ನಿರ್ದೇಶಕರು.

PR-568

**In The Court Of Honorable 6<sup>th</sup> MMTC Bengaluru City**

**In Hereby Notified To The Public That Adugodi Traffic Police Station Bengaluru City Have Seized Unclaimed Vehicles Of Following Vehicles As P.F. Vehicles Are Lying In The Adugodi Traffic Police Station So Far I Hence The Owner Of Properties (Vehicles) May Put Their Claim One Month From The Date Of Publication.**

**List of Seized Vehicle Are Lying In the Adugodi Traffic Police Station Bengaluru City Which Have Been Seized Under**

**Particulars of The Adugodi Traffic Police Station Seized (P.F) Vehicles**

NCR No	P F No	Item No	Vehicle	Vehicle No	Model	Model	Color	Engine No
04/2021	05/2021	1	Motor Cycle	AP05AL5629	Hero Honda	Hero Honda	Maroon	IS897CM3GBG
04/2021	05/2021	2	Scooter	KA04EQ5760	Honda Activa	Honda Activa	Black	JF08E8441877

ಭಾಗ ೨

ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ, ಬುಧವಾರ, ೦೧, ಸೆಪ್ಟೆಂಬರ್, ೨೦೨೧

ಖಿಲಾಖಿ

04/2021	05/2021	3	Motor Cycle	KA01EA4981	Bajaj Pulsar	Bajaj Pulsar	Black	DHGBMH15788
04/2021	05/2021	4	Motor Cycle	KA02EL2008	Bajaj Pulsar	Bajaj Pulsar	Black	DHGBKL05584
04/2021	05/2021	5	Scooter	KA53S7180	Tvs Wego	Tvs Wego	White	OG4PA1077862
04/2021	05/2021	6	Motor Cycle	KA40H3708	Bajaj Pulsar	Bajaj Pulsar	Black	DHGBJK07434
04/2021	05/2021	7	Motor Cycle	KA01EB1795	Honda Activa	Honda Activa	Black	JF08E8352701
04/2021	05/2021	8	Scooter	KA05JM5032	Honda Activa	Honda Activa	White	JF49E80206076
04/2021	05/2021	9	Scooter	KA05JX8296	Honda Activa	Honda Activa	Blue	JF48E81132012
04/2021	05/2021	10	Scooter	KA05JD5571	Suzuki Access	Suzuki Access	White	F4862511291
04/2021	05/2021	11	Scooter	KA51AB6429	Honda Activa	Honda Activa	Gray	JF50ET7292319
04/2021	05/2021	12	Motor Cycle	KA01EP5327	Bajaj Discover	Bajaj Discover	Magen	JBMBM92158
04/2021	05/2021	13	Motor Cycle	KA04HL5504	Yamaha Fz16	Yamaha Fz16	Red	21CD002398
04/2021	05/2021	14	Scooter	KA01Y9115	Tvs Xl	Tvs Xl	Green	OD1G51447173
04/2021	05/2021	15	Scooter	KA05HF0809	Suzuki Access	Suzuki Access	White	F486123163
04/2021	05/2021	16	Motor Cycle	KA02JJ9929	Bajaj CT 100	Bajaj CT 100	Black Blue	DUZWGA29515
04/2021	05/2021	17	Motor Cycle	KA04HQ0861	Splendor Plus	Splendor Plus	Black	06D15M07799

**Place: Bengaluru City**

**Date: 19/08/2021**

**Metropolitan Magistrate Traffic Court VI  
Bengaluru City.**

**PR-569**